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ABSTRACT

The data contained in the tables of this publication were derived from the Survey of Federal Funds for Research and Development and cover Fiscal Years 1996-1998. The data reflects research and development (R&D) funding levels as reported by 31 federal agencies from February through August 1997. All agencies that were identified as conducting R&D programs were surveyed. The agencies reported their data as obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. This report contains general notes about the survey, technical notes and definitions, a listing of federally-funded R&D centers by agency and administration, 135 detailed statistical tables in 16 categories, and a listing of the agencies surveyed. (WRM)

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Fiscal Years 1996, 1997, and 1998

Volume 46

Detailed Statistical Tables

Division of Science Resources Studies
Directorate for Social, Behavioral, and Economic Sciences
National Science Foundation
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OVERVIEW

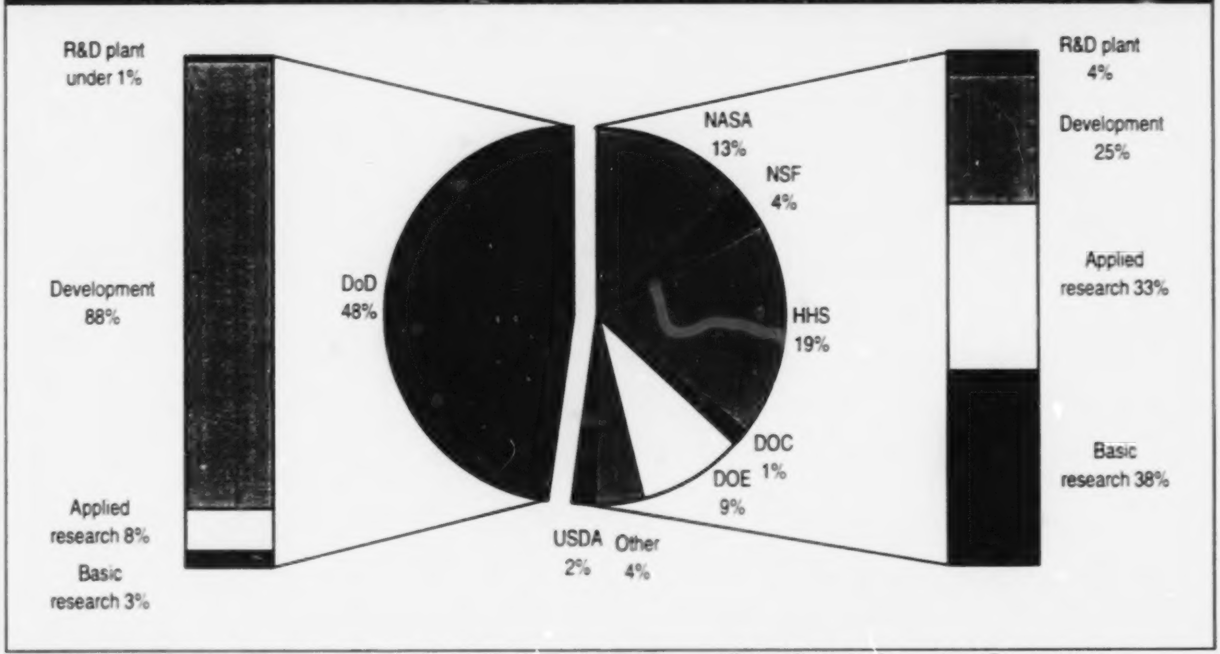
INTRODUCTION

Federal agencies expect their funding for research and development (R&D) and R&D plant to decrease about 1 percent (2-percent decrease in inflation-adjusted 1992 dollars) to $72 billion in fiscal year (FY) 1998, according to survey reports received during the period May through August 1997. Development and R&D plant account for the R&D decrease, declining by 2 percent (a 4-percent decrease in constant 1992 dollars) and 13 percent (15-percent decrease in constant 1992 dollars), respectively, from estimated FY 1997 levels (to $40 billion and $2 billion, respectively). Research spending (including basic and applied research) will increase 2.5 percent (to $30 billion). But after adjusting for inflation, Federal obligations for research will rise slightly, by under 1 percent. Research accounts for 42 percent of the FY 1998 total R&D money. The estimated obligations provided in this report are subject to change as Federal agencies' budgets are updated to reflect approved programs.

AGENCY TOTAL FUNDING SHARES

Seven Federal agencies, out of the 31 that report to the R&D survey, account for 96 percent ($69 billion) of total projected Federal funding for R&D and R&D plant in FY 1998 (figure 1). The Department of Defense (DoD) will continue to comprise the largest share (48 percent), as it has throughout the 1990s, even though its funding will decrease 2.5 percent from its estimated FY 1997 level. Contributing to DoD's drop in overall R&D funding are the combined Defense agencies (9 percent decrease), the Army (8 percent decrease in its military functions component), and the Navy (4 percent decrease). Within the Defense agencies, the Ballistic Missile Defense Organization (BMDO) (down 24 percent), Washington Headquarters Services (WHS), and Special Operations Command (both down 7 percent) report the largest percentage decreases in proposed R&D funding. Also, the Office of the Director for Operational Test and Evaluation reports a 6-percent decrease in funding for R&D in FY 1998.

Figure 1. Preliminary Federal obligations for R&D and R&D plant, by agency and character of work: 1998



SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Funding from the Department of Health and Human Services (HHS) will comprise the second largest share of Federal agencies' R&D funding (19 percent), increasing by 1 percent from its FY 1997 level. Most (94 percent) of the HHS amount is from its National Institutes of Health (NIH) for support in the life sciences. The other top funding agencies are the National Aeronautics and Space Administration (NASA) (13 percent of the FY 1998 Federal R&D and R&D plant total), the Department of Energy (DOE) (9 percent), the National Science Foundation (NSF) (4 percent), the Department of Agriculture (USDA) (2 percent), and the Department of Commerce (DOC) (1 percent). Almost all (98 percent) of DOC's funding is from its National Institute of Standards and Technology (NIST) and National Oceanic and Atmospheric Administration (NOAA). Three of the 11 agencies within USDA reporting funding for R&D account for 94 percent of USDA's R&D obligations: Agricultural Research Service, $0.8 billion; Cooperative State Research, Education, and Extension Service, $0.4 billion; and Forest Service, $0.2 billion. DOC and USDA each estimate that combined R&D and R&D plant funding will decline in FY 1998, whereas such funding from DOE, NASA, and NSF is slated to increase.

R&D Growth in the 1990s

Of the seven major R&D funding agencies, DOC reports the largest estimated R&D and R&D plant funding annual growth rate for the FY 1990-98 period (11 percent, 8 percent in constant 1992 dollars) (table 1). DOC's growth reflects the rapid increases in funding at NIST which peaked at more than $0.6 billion in FY 1995. Even though reporting a projected small decrease in overall R&D funding in FY 1998, NIST increased its obligations from $131 million ($141 million in constant dollars) in FY 1990 to $510 million ($444 million in constant dollars) in FY 1998, representing an average annual increase of 19 percent (16 percent increase in constant dollars). However, the FY 1998 NIST R&D funding level is $130 million ($150 million in constant dollars) below what it was in FY 1995, representing an average annual decrease of 9 percent (7 percent decrease in constant dollars). HHS follows DOC with a 6-percent growth rate (3 percent in constant dollars) during the same period. NSF reports an average 5-percent growth per year (2 percent in constant dollars) for its R&D and R&D plant funding from FYs 1990–98. DoD's obligations drop on average 1 percent annually. In constant dollars, its funding decreases at an

Table 1. Federal obligations for R&D and for R&D plant: FYs 1990–98

Agency	FY 1990 actual	FY 1991 actual	FY 1992 actual	FY 1993 actual	FY 1994 actual	FY 1995 actual	FY 1996 actual	FY 1997 preliminary	FY 1998 preliminary	Average annual percent change FYs 1990–98
	(Millions of current dollars)									
Total	65,831	64,148	68,577	70,415	69,428	70,997	69,409	71,996	71,593	1.1
DoD	37,756	32,561	36,526	36,221	34,788	34,427	34,542	34,996	34,118	-1.3
HHS	8,513	9,842	9,085	10,499	11,142	11,711	12,086	13,137	13,324	5.8
NASA	7,060	8,004	8,475	8,769	8,812	9,640	8,988	9,415	9,599	3.9
DOE	6,547	7,203	7,493	7,724	6,960	6,890	6,051	6,434	6,449	-0.2
NSF	1,729	1,945	1,970	2,012	2,212	2,439	2,376	2,424	2,519	4.8
USDA	1,211	1,381	1,492	1,470	1,525	1,523	1,430	1,562	1,476	2.5
DOC	454	505	672	682	857	1,214	1,152	1,075	1,059	11.2
Other	2,562	2,707	2,864	3,038	3,133	3,154	2,785	2,954	3,049	2.2
	(Millions of constant 1992 dollars)									
Total	70,672	66,030	68,577	68,604	66,047	65,848	62,921	63,860	62,320	-1.6
DoD	40,532	33,516	36,526	35,289	33,093	31,930	31,313	31,041	29,698	-3.8
HHS	9,139	10,131	9,085	10,228	10,599	10,862	10,957	11,652	11,598	3.0
NASA	7,579	8,239	8,475	8,544	8,382	8,941	8,147	8,351	8,356	1.2
DOE	7,028	7,415	7,493	7,525	6,621	6,390	5,485	5,707	5,614	-2.8
NSF	1,856	2,002	1,970	1,961	2,104	2,262	2,153	2,150	2,193	2.1
USDA	1,300	1,422	1,492	1,432	1,451	1,413	1,297	1,385	1,285	-0.1
DOC	487	520	672	664	816	1,126	1,044	953	922	8.3
Other	2,751	2,786	2,864	2,960	2,980	2,925	2,524	2,620	2,654	-0.4

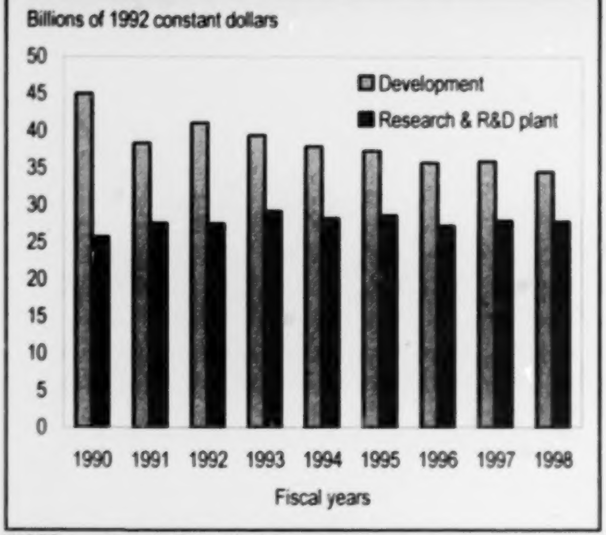
SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

estimated annualized rate of 4 percent over this eight-year period.

DEVELOPMENT FUNDING

As in the past, the Federal Government obligates the largest portion of its R&D dollars for development, which accounts for approximately 55 percent of the FY 1998 preliminary total R&D and R&D plant obligations. However, the development share has been decreasing throughout the 1990s, having declined from its peak 64-percent share in FY 1990 (figure 2). Agencies expect development funds to drop 2 percent (down 4 percent in constant 1992 dollars) from their FY 1997 level, to $40 billion ($34 billion in constant 1992 dollars) in FY 1998.

Figure 2. Federal obligations for R&D and R&D plant: FYs 1990–98



NOTE: Data for FYs 1997–98 are preliminary.

SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Six agencies account for 99 percent of estimated Federal development obligations in FY 1998 (table 2). These agencies are DoD (more than 80 percent from the three service agencies—Army, Navy, and Air Force), NASA, DOE, HHS (almost entirely from NIH), Department of Transportation (DOT) (more than 90 percent from the Federal Aviation Administration and Federal

Table 2. Federal obligations for development: FYs 1990–98

Agency	FY 1990 actual	FY 1991 actual	FY 1992 actual	FY 1993 actual	FY 1994 actual	FY 1995 actual	FY 1996 actual	FY 1997 preliminary	FY 1998 preliminary	Average annual percent change, FY 1990–98
	(Millions of current dollars)									
Total	41,937	37,327	41,102	40,424	39,824	40,166	39,398	40,488	39,620	-0.7
DoD	33,739	28,417	32,056	31,066	30,313	30,012	30,499	31,021	30,123	-1.4
NASA	3,473	3,909	4,428	4,471	4,456	4,969	4,692	4,940	5,095	4.9
DOE	3,060	2,709	2,760	2,822	2,766	2,685	1,983	2,189	1,960	-5.4
HHS	939	1,594	1,042	1,157	1,285	1,379	1,407	1,488	1,587	6.8
DOT	247	265	288	319	347	356	174	206	218	-1.6
DOC	61	40	55	74	108	244	217	191	182	14.6
USDA	47	61	66	76	77	81	80	89	89	8.3
Other	371	331	406	439	473	440	344	365	365	-0.2
	(Millions of constant 1992 dollars)									
Total	45,021	38,422	41,102	39,384	37,884	37,253	35,715	35,912	34,488	-3.3
DoD	36,220	29,251	32,056	30,267	28,836	27,835	27,649	27,515	26,221	-4.0
NASA	3,728	4,024	4,428	4,356	4,239	4,609	4,254	4,382	4,435	2.2
DOE	3,285	2,789	2,760	2,749	2,631	2,490	1,797	1,942	1,706	-7.9
HHS	1,008	1,640	1,042	1,127	1,223	1,279	1,276	1,320	1,381	4.0
DOT	266	273	288	311	330	330	158	182	190	-4.1
DOC	66	41	55	72	103	226	197	169	159	11.7
USDA	51	63	66	74	74	75	73	79	78	5.5
Other	399	341	406	427	450	408	312	323	318	-2.8

SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Highway Administration), and DOC (more than three-fourths from NIST). After adjusting for inflation, half of these agencies report an expected decrease in development funding for FY 1998: DOE (down 12 percent), DOC (down 6 percent), and DoD (down 5 percent).

To better understand the component pieces of Federal R&D funding and to allow a closer look at the funding activity of DoD agencies that report to the Survey of Federal Funds for Research and Development, NSF collects data on DoD development dollars in two categories: advanced technology development and major systems development. Advanced technology includes development for military and nondefense applications. Major systems includes testing and evaluation of mostly defense-related systems. This *Federal Funds* volume is the third report to include such statistics on development funding.

DoD expects to provide $26 billion (87 percent of its total development obligations) toward major systems development, which represents a 1-percent drop in FY 1998 (down 3 percent in constant 1992 dollars) (table 3). Combined, the Air Force, Navy, Army (its Military Functions component), and BMDO expect to account for $25 billion (95 percent) of the estimated

Table 3. Federal obligations for development by agencies in DoD: FYs 1994–98

Agency and character of work	FY 1994 actual	FY 1995 actual	FY 1996 actual	FY 1997 preliminary	FY 1998 preliminary	Percent change FYs 1997–98
	(Millions of current dollars)					
Total DoD						
Basic research	1,222	1,264	1,138	1,029	1,117	8.5
Applied research	3,040	3,070	2,858	2,868	2,791	-2.7
Development 1/	30,313	30,012	30,499	31,021	30,123	-2.9
Advanced technology	4,461	4,556	4,449	4,399	3,815	-13.3
Major systems	25,812	25,450	26,039	26,610	26,295	-1.2
Army						
Development	4,721	4,567	4,203	4,202	3,875	-7.8
Advanced technology	1,187	1,087	695	736	431	-41.4
Major systems	3,514	3,584	3,496	3,453	3,431	-0.6
Navy						
Development	8,082	8,083	7,713	7,272	6,951	-4.4
Advanced technology	412	592	455	547	437	-20.1
Major systems	7,670	7,731	7,258	6,725	6,514	-3.1
Air Force						
Development	11,713	10,963	12,160	13,055	13,589	4.1
Advanced technology	448	456	495	399	383	-4.0
Major systems	11,265	11,415	11,665	12,656	13,206	4.3
Total defense agencies						
Development	5,553	6,145	6,144	6,229	5,414	-13.1
Advanced technology	2,414	2,958	2,804	2,717	2,564	-5.6
Major systems	3,120	3,204	3,340	3,512	2,851	-18.8
Operational test and evaluation						
Development	11	22	22	25	23	-6.1
Advanced technology	0	0	0	0	0	-
Major systems	11	22	22	25	23	-6.1
Test and evaluation						
Development	232	231	258	238	270	13.1
Advanced technology	0	0	0	0	0	-
Major systems	232	231	258	238	270	13.1

1/ DoD development does not equal the sum of the advanced technology and major systems detail because some DoD agencies could not break down development into these two categories.

SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998 major systems development obligations. However, three of these four DoD funders expect decreases in major systems development in FY 1998—Army and Navy expect declines of 1 percent and 3 percent, respectively, and BMDO is slated to drop 23 percent. Air Force will increase its funding by $0.6 billion (4 percent) in FY 1998, while from FYs 1996–97 Air Force increased its funding by nearly $1 billion (8 percent).

DoD reports that advanced technology development funding will decrease $0.6 billion (13 percent) to $4 billion in FY 1998. Six DoD agencies account for most (94 percent) of the estimated advanced technology development funding. They are the Defense Advanced Research Projects Agency (DARPA) ($1 billion for advanced technology development), BMDO ($0.7 billion), WHS ($0.4 billion), and the three service agencies, each with $0.4 billion. However, each of these agencies reports an expected decrease in funding for advanced technology development from FY 1997—Army down by $300 million, BMDO down by $200 million, Navy down by $100 million, DARPA down by $28 million, Air Force down by $16 million, and WHS down by $15 million.

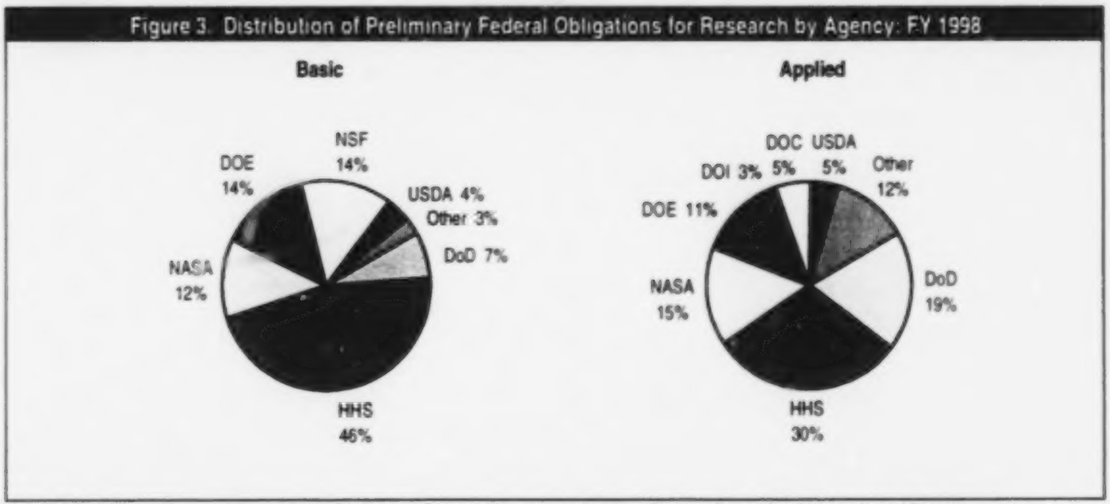
AGENCIES' FUNDING FOR BASIC AND APPLIED RESEARCH

The share of Federal obligations for basic research has been increasing slowly since FY 1992. In FY 1992, basic research comprised 18 percent of total R&D. That percentage increased slightly each year and reaches 21 percent in FY 1998, according to preliminary estimates. Change in the applied research share has been similar to that for basic research throughout this period. In FY 1992, applied research accounted for 17.5 percent of the R&D total, and its FY 1998 share is also 21 percent. Overall, Federal agencies report a 4-percent average annual rate of growth (1 percent in constant 1992 dollars) for basic research from FYs 1990–98. Federal agencies report about a 5-percent average annual rate of growth (2 percent in constant 1992 dollars) for applied research during this same time period. When adjusted for inflation, however, basic and applied research funding each has held steady at about $13 billion since FY 1993.

The six lead agencies in basic research funding will account for 97 percent of the Federal basic research total in FY 1998 (figure 3). These agencies are HHS (almost entirely at NIH), NSF, DOE, NASA, DoD, and USDA. Of these six agencies, NASA and USDA report an expected decrease in basic research funding for FY 1998, dropping 5 percent (down $102 million) and 1 percent (down $7 million), respectively. Each of the other four agencies expects strong to modest increases in basic research funding in FY 1998: DoD (9 percent), DOE (5 percent), NSF (4 percent), and HHS (1 percent).

Seven agencies will account for 88 percent of the Federal applied research obligations in FY 1998. These agencies are HHS, DoD, NASA, DOE, USDA, DOC, and the Department of the Interior (DOI). DoD and USDA each reports an expected 3 percent decrease in applied research funding for FY 1998 (down $77 million and $24 million, respectively). DOC indicates that its FY 1998 applied research funding is nearly the

Figure 3. Distribution of Preliminary Federal Obligations for Research by Agency: FY 1998



SOURCE: National Science Foundation, Division of Science Resources Studies, Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

same as its FY 1997 level. The other four agencies expect strong to modest increases in applied research funding: NASA (11 percent), DOE (6 percent), HHS (5 percent), and DOI (2 percent).

Research Funding by Science and Engineering Fields

Most basic research obligations support work performed in the life sciences ($7 billion), physical sciences ($3 billion), engineering ($2 billion), and environmental sciences ($1.5 billion), according to preliminary 1998 estimates. HHS provides the bulk (82 percent) of life sciences funding, while DOE is the largest Federal funder of basic research in the physical and environmental sciences, accounting for 33 percent of their combined total. NASA follows closely, funding 32 percent of basic research in these two science fields.

Agencies also provide more applied research support in the life sciences ($6 billion, mostly from HHS) than in any other field. However, agencies fund applied research in engineering second most (at $4 billion), largely provided by DoD (35 percent) and NASA (34 percent).

GENERAL NOTES

Data in the tables of this publication were derived from the Survey of Federal Funds for Research and Development and cover FYs 1996–98. They reflect research and development (R&D) funding levels as reported by 31 Federal agencies in February through August 1997. All agencies that were identified as conducting R&D programs were surveyed.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further categorized according to character of work (basic research, applied research, and development), performer, field of science or engineering (for research but not for development), and Federal R&D funding by State. Obligations for research performance at universities and colleges by fields of science or engineering are also shown, as are R&D plant data.

The amounts reported for each year are expressed in obligations or outlays incurred, or expected to be incurred, in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

Data for FY 1996 are actual, representing completed transactions. Data for FYs 1997 and 1998 are estimated because they do not represent final actions. The Survey of Federal Funds for Research and Development was conducted during the third quarter of FY 1997. The amounts reported for FY 1997 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1998 represent administration budget proposals that had not been acted on. Authorization, appropriation, deferral, and apportionment actions that were completed after these data were collected will be reflected in later surveys of this series.

Accuracy of the data depends in part on the judgment of the respondent. Since many agency R&D programs are not identified as budget-line items, agency officials must identify R&D and R&D plant activities within broader programs. Over the years personnel of the participating agencies have developed increasing skill and consistency in meeting the survey requirements, and their interaction with the National Science Foundation staff has considerably increased the reliability of the data.

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Note

For trend comparison, use only the historical data for FYs 1977–98 contained in tables C-92 through C-111a in this Federal funds, Volume 46 series. These tables incorporate changes in prior-year data made by the agencies to reflect program reclassifications. Do not use data published earlier.

SECTION A.

TECHNICAL NOTES

SCOPE AND METHOD

During the period February through August 1997, a total of 31 Federal agencies and their subdivisions—94 individual respondents—submitted data in response to the National Science Foundation's (NSF's) annual Survey of Federal Funds for Research and Development (Federal funds survey), which was distributed in February 1997. The agencies reported their data as obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for research and development (R&D) activities.

Only those agencies that had obligations in the variables represented by a particular table appear in that table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

DEFINITIONS

The definitions are essentially unchanged from those used in past Federal funds surveys.

1. An **agency** is an organization of the Federal Government whose principal executive officer reports to the President. The Library of Congress is also included in the survey, even though its chief officer reports to Congress. **Subdivision** refers to any organizational unit of a reporting agency, such as a bureau, division, office, or service.

2. **Obligations** and **outlays** reported are consistent with figures shown for FYs 1996, 1997, and 1998 appearing in *The Budget of the United States Government, Fiscal Year 1998*. The R&D data in both agency submissions were based on the same definitions and are reconcilable.

   Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

   Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated. Obligations and outlays cover all transactions that occurred in FY 1996 and those estimated for FYs 1997 and 1998.

   The data include all Federal funds available to an agency that the agency received or expects to receive from direct appropriations, trust funds, special account receipts, corporate income, or other sources, including funds appropriated to the President.

   The amounts shown for each year reflect obligations or outlays for that year regardless of when the funds were originally authorized or received and regardless of whether or not they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

   In reporting its obligations or outlays, **each agency includes the amounts transferred to other agencies for support of research and development. The receiving agencies do not report funds transferred to them.** Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

   Obligations and outlays for R&D performed for an agency in foreign countries include all funds available to the agency for this purpose, including funds separately appropriated for special foreign currency programs.

   Funds reported for research and development reflect full cost coverage. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

3. The **fiscal year (FY)** in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, FY 1996 began on October 1, 1995, and ended September 30, 1996.

4. **Research, development, and R&D plant** include all direct, incidental, or related costs resulting from, or necessary to, performance of

R&D and costs of R&D plant, defined as follows, regardless of whether the R&D is performed by a Federal agency (intramurally) or by private individuals and organizations under grant or contract (extramurally). R&D excludes routine product testing, quality control, mapping and surveys, collection of general purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

   In **basic research** the objective of the sponsoring agency is to gain more complete knowledge or understanding of the fundamental aspects of phenomena and of observable facts, without specific applications toward processes or products in mind.

   In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

   To better differentiate between that part of the Federal R&D budget which supports "science and key enabling technologies" (including for military and nondefense applications) and that which primarily concerns "testing and evaluation" (of mostly defense-related systems), NSF now collects from DoD development dollars in two categories, advanced technology development and major systems development.

   Within DoD's research categories, advanced technology development is classified as 6.3A. Major systems development is classified as 6.3B through 6.7 and includes demonstration and validation, engineering and manufacturing development, management and support, and operational system development.

c. **Demonstration activities** that are part of R&D (i.e., that are intended to prove or to test whether a technology or method does in fact work) are included. Demonstrations intended primarily to make information available about new technologies or methods are excluded.

d. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and particle accelerators) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable or movable equipment (e.g., spectrometers, microscopes) and office furniture and equipment. Also excluded are the costs of predesign studies (e.g., those undertaken before commitment to a specific facility). These excluded costs are reported under "total conduct of research and development." Obligations for foreign R&D plant are limited to Federal funds for facilities that are located abroad and used in support of foreign research and development.

5. **Fields of science and engineering** in this survey consist of eight broad field categories, each consisting of a number of detailed fields. The broad fields are life sciences; psychology; physical sciences; environmental sciences; mathematics and computer sciences; engineering; social sciences; and other sciences, not elsewhere classified. The term "not elsewhere classified" (n.e.c.) is used for multi-disciplinary projects within a broad field and for single-discipline projects for which a separate field has not been assigned. The following list presents the detailed fields grouped under each of the broad fields, together with illustrative disciplines of detailed fields.

The illustrative disciplines are intended to be guidelines, not sharp definitions; they represent examples of disciplines generally classified under each detailed field. A discipline under one detailed field may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry, for example, might be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would fall under agricultural. In no case is the research reported under more than one field. No double-counting is intended or allowed.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental); environmental biology; agricultural; medical; and life sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

   Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.

   Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population and biotic community ecology; population biology; systematics; other environmental biology, n.e.c.

   Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; phytopathology; phytoproduction; plant sciences; soils and soil science; general agriculture; other agriculture, n.e.c.

   Medical: dentistry; internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pathology; pediatrics; pharmacology; pharmacy; preventive medicine; psychiatry; radiology; surgery; veterinary medicine; other medical, n.e.c.

   Life sciences, n.e.c.

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology in this survey is divided into three categories: biological aspects; social aspects; and psychological sciences, n.e.c. Examples of the disciplines under each of these fields are as follows:

   Biological aspects: animal behavior; clinical psychology; comparative psychology; ethology; experimental psychology

   Social aspects: development and personality; educational, personnel, and vocational psychology and testing; industrial and engineering psychology; social psychology

   Psychological sciences, n.e.c.

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy; chemistry; physics; and physical sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

   Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, gamma-ray, and neutrino astronomy

   Chemistry: inorganic; organic; organometallic; physical

   Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma

   Physical sciences, n.e.c.

d. **Environmental sciences** (terrestrial and extraterrestrial) are, with one exception, concerned with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect human survival and welfare. The one exception is that obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprise the fields of atmospheric sciences; geological sciences; oceanography; and environmental sciences, n.e.c. Examples of disciplines under each of these fields are as follows:

  Atmospheric sciences: aeronomy; extraterrestrial atmospheres; meteorology; solar; weather modification

  Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; laboratory geophysics; organic geochemistry; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences

  Oceanography: biological oceanography; chemical oceanography; marine geophysics; physical oceanography

  Environmental sciences, n.e.c.

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols and, in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under these fields are as follows:

  Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology

  Computer sciences: computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; programming languages; systems analysis

  Mathematics and computer sciences, n.e.c.

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific principles usable in engineering practice. Engineering in this survey is divided into eight fields: aeronautical; astronautical; chemical; civil; electrical; mechanical; metallurgy and materials; and engineering, n.e.c. Examples of disciplines under each of these fields are as follows:

  Aeronautical: aerodynamics

  Astronautical: aerospace; space technology

  Chemical: petroleum; petroleum refining; process

  Civil: architectural; hydraulic; hydrologic; marine; sanitary and environmental; structural; transportation

  Electrical: communication; electronic; power

  Mechanical: engineering mechanics

  Metallurgy and materials: ceramic; mining; textile; welding

  Engineering, n.e.c.: agricultural; bioengineering; biomedical; industrial and management; nuclear; ocean; systems

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. Social sciences include anthropology; economics; political science; sociology; and social sciences, n.e.c.

Examples of disciplines under the fields of social science are as follows:

Anthropology: applied anthropology; archaeology; cultural and personality; social and ethnology

Economics: economic systems and development; econometrics and economic statistics; history of economic thought; industrial, labor, and agricultural economics; international economics; macroeconomics; microeconomics; public finance and fiscal policy; theory

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions; social problems and social welfare; sociological theory

Social sciences, n.e.c.: linguistics; research in education; research in history; research in law (e.g., attempts to assess impact on society of legal systems and practices); socioeconomic geography

h. **Other sciences, n.e.c.:** This category is used for multidisciplinary or interdisciplinary projects that cannot be classified within one of the broad fields of science already listed.

6. **A performer** is either an intramural group or organization carrying out an operational function or an extramural organization or person receiving support or providing services under a contract or grant.

a. **Intramural performers** are the agencies of the Federal Government. Their work is carried on directly by agency personnel. Obligations reported under this category are for activities performed or to be performed by the reporting agency itself or represent funds that the agency transfers to another Federal agency for performance of work **as long as the ultimate performer is that agency or any Federal agency.** If the ultimate performer is not a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (universities and colleges, other nonprofit institutions, or industrial firms).

NOTE: Intramural activities cover not only the actual intramural R&D performance, but also the costs associated with the planning and administration of both intramural and extramural programs by Federal personnel. Intramural activities also include the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural R&D. For example, the purchase from an extramural source of an operational launch vehicle (i.e., one that has gone beyond the development or prototype stage) that is used for intramural performance of R&D is reported as a part of the cost of intramural R&D.

b. **Extramural performers** are organizations outside the Federal sector that perform R&D with Federal funds under contract, grant, or cooperative agreement. Only those costs associated with actual R&D performance are reported, but these costs would include costs of materials and supplies to carry out R&D activities. Note, however, that the costs of off-the-shelf supplies and equipment required to support intramural R&D and procured from extramural suppliers are considered as part of the costs of intramural performance and not as part of the costs of extramural performance.

Extramural performers are identified as follows:

i. **Industrial firms:** Organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 1-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals and associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions whose net earnings in no part inure to the benefit of a private stockholder or individual and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit organizations.

iv. **Federally funded research and development centers (FFRDCs):** R&D-performing organizations that are exclusively or substantially financed by the Federal Government and are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another nonprofit institution.

In general, all of the following criteria are met by an organization that is included in the FFRDC category:

(1) Its primary activities include one or more of the following: basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination);

(2) It is a separate operational unit within the parent organization or is organized as a separately incorporated organization;

(3) It performs actual research and development or R&D management either upon direct request by the Federal Government or under a broad charter from the Federal Government but in either case under the direct monitorship of the Federal Government;

(4) It receives its major financial support (70 percent or more) from the Federal Government, usually from one agency;

(5) It has, or is expected to have, a long-term relationship with its sponsoring agency (about 5 years or more), as evidenced by specific obligations assumed by it and the agency;

(6) Most or all of its facilities are owned by, or are funded under contract with, the Federal Government; and

(7) It has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments:** State and local government agencies, excluding State or local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local institutions excluded in this category are included under the "Universities and colleges" category in this report.) R&D activities under the State and local category are performed either by the State or local agencies themselves or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under this sector and no other.

vi. **Foreign performers:** Foreign citizens, foreign organizations, or foreign governments, as well as international organizations (such as the North Atlantic Treaty Organization (NATO), United Nations Educational, Scientific, and Cultural Organization (UNESCO), and World Health Organization (WHO)), performing R&D work abroad financed by the Federal Government. Excluded are U.S. agencies, organizations, or citizens performing R&D abroad for the Federal Government; the survey does not seek information on "offshore" payments. An exception is made in the case of U.S. citizens performing R&D abroad under special foreign currency funds; these activities are included under "Foreign performers." Foreign scientists performing in the United States are excluded, however.

vii. **Private individuals:** For cases wherein an R&D grant or contract is awarded directly to a private individual, obligations incurred are placed under "Industrial firms."

7. **Federal obligations for research performed at universities and colleges, by detailed field of science:** Only six agencies participate in the portion of the survey covering the funding of research at universities and colleges by detailed field of science. These six agencies represent approximately 97 percent of the Federal research obligations to universities and colleges. The six agencies are the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration (NASA); and the National Science Foundation (NSF).

8. **Geographic distribution of 1996 R&D obligations**

   a. Only the 10 largest R&D funding agencies participate in the portion of the survey covering the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for approximately 98 percent of total Federal R&D and R&D plant obligations in 1996. The respondents are the Departments of Agriculture, Commerce, Energy, Defense, Health and Human Services, the Interior, and Transportation; the Environmental Protection Agency; NASA; and NSF.

   b. Actual fiscal year 1996 data were requested in terms of the principal location (State or outlying area) where the work was performed by the primary contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. primary contractor, grantee, or intramural organization was located.

   c. Obligations were reported for R&D as a combined amount.

   d. Specifically omitted from the geographic portion of the survey were R&D obligations to foreign performers and support of foreign performers. Foreign performer data, by country, are reported in a separate section of the Federal funds survey.

CHANGES IN REPORTING

While completing the survey forms each year, agency respondents make revisions to their estimates for the latest 2 years of the previous report, in this case FYs 1996 and 1997. Such revision is part of the budgetary cycle. From time to time survey submissions also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When such revisions occur, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

CHANGES IN THE SCOPE OF THE SURVEY

The scope of the Federal funds survey has changed over time, and the survey instrument has been revised accordingly. The most recent changes are described in the following paragraphs.

Since the Volume 40 (FYs 1990–92) survey cycle, the Department of Defense (DoD) has reported research obligations separate from the development obligations for Table A, *Obligations for research and development, by State and performer*. (Tables A1, *Obligations for research, by State and performer*, and A2, *Obligations for development, by State and performer*, were created for DoD to complete in place of Table A.) The additional detail provided by DoD highlights the following circumstances that are specific to DoD:

- DoD funds the preponderance of Federal development.
- DoD development funded at institutions of higher education is typically performed at university-affiliated non-academic laboratories that are separate from the universities' academic departments where university research is typically performed.
- Geographic distribution of development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform most of the research and development.

During the Volume 44 (FYs 1994–96) survey cycle, the Director for Defense Research and Engineering (DDR&E) at DoD requested that NSF further clarify the true character of DoD's R&D program, particularly as it compares with other Federal agencies, by adding more detail to development obligations reported by DoD respondents. Specifically, DoD requested that NSF allow DoD agencies to report development obligations in two separate categories, advanced technology development and major systems development.

The reasoning behind DDR&E's request for the additional development categories is best explained by the following excerpt from a letter written by Robert V. Tuohy, Chief, Program Analysis and Integration at DDR&E, to John E. Jankowski, Jr., Program Director, Research and Development Statistics Program, SRS:

> The DoD's R&D program is divided into two major pieces, Science and Technology (S&T) and Major Systems Development. The other Federal agencies' entire R&D programs are equivalent in nature to DoD's S&T program, with the exception of the Department of Energy and possibly NASA. Comparing those other agency programs to DoD's program, including the development of weapons systems such as F-22 Fighter and the New Attack Submarine, is misleading.

At several annual issues workshops held during FYs 1992–96, NSF learned from survey respondents that there were certain Federal funds survey data items for which reliable data were difficult to obtain and report. As a result, NSF began to consider removing certain items from the Federal funds survey instrument. The Volume 42 Detailed Statistical Tables publication was distributed with a flier notifying data users that NSF was considering eliminating several items from future volumes of the document. Data users were asked to review the list of affected tables shown on the flier, and to comment on the proposed eliminations to NSF.

Prior to the publication of the Volume 43 (FYs 1993–95) edition of the Detailed Statistical Tables, NSF decided to remove 54 tables from the document that depicted data on two of the items slated for elimination: data for the special foreign currency program, and detailed field of S&E data for estimated outyears. NSF continued to collect data from Federal agencies for these items through Volume 45, but eliminated the special foreign currency program and outyears' detailed field of S&E lines on the survey instrument beginning with the Volume 46 (FYs 1996–98) survey cycle. A special flier was included in the Volume 46 mailout packet that listed the data items that were no longer required (see Appendix A).

NSF also decided to remove two tables depicting data on foreign performers by region, country, and agency prior to publication of the Volume 43 edition of the Detailed Statistical Tables. These tables have been reinstated for the current volume.

LIMITATIONS OF THE DATA

Funds for research and development were reported on a 3-year basis comparable with the 1998 budget, upon which the data were based. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, R&D plant, or some combination of the three.

The respondents reconciled the data reported to the Federal funds survey with the amounts for R&D they reported to the Office of Management and Budget for the 1998 President's budget.

Some agencies are not able to report the full costs of research and development. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DoD) (estimated at a fraction of 1 percent of the agency's R&D total) are excluded, because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also underreported to some extent because of the difficulty encountered by some agencies, particularly DoD and NASA, in identifying and reporting these data. DoD's respondents report obligations for the R&D plant funded under the agency's construction appropriation, but they are able to identify only a small portion of the R&D plant support that is within R&D contracts funded from DoD's appropriation for research, development, testing, and evaluation. Similarly, NASA respondents cannot separately identify the portions of industrial R&D contracts that apply to R&D plant; R&D plant data are subsumed in the R&D data covering industrial performance. NASA R&D plant data for other performing sectors are reported separately.

SECTION B.

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY AGENCY AND TYPE OF ADMINISTRATION

The following is the master list of federally funded research and development centers (FFRDCs) included in the Federal funds survey for FYs 1996–98. The list is arranged by sponsoring agency and administering organization. Respondents reported under the FFRDC category those funds obligated to centers identified on this list.

Federally funded R&D centers, by agency and type of administration

Sponsoring agency	Administered by universities and colleges 1/	Administered by other nonprofit institutions 2/	Administered by industrial firms
DEPARTMENT OF DEFENSE:			
Office of the Secretary of Defense		Institute for Defense Analyses Studies and Analyses FFRDC (Institute for Defense Analyses), Alexandria, VA Logistics Management Institute (Logistics Management Institute), McLean, VA 3/ National Defense Research Institute (RAND Corp. 4/), Santa Monica, CA C3I Federally Funded Research and Development Center (MITRE Corp. 5/), Bedford, MA, and McLean, VA	
Defense Advanced Research Projects Agency	Software Engineering Institute (Carnegie Mellon University), Pittsburgh, PA		
National Security Agency		Institute for Defense Analyses Communications and Computing Federally Funded Research and Development Center 7/ (Institute for Defense Analyses), Alexandria, VA	
Department of the Navy		Center for Naval Analyses (The CNA Corp.), Alexandria, VA	
Department of the Air Force	Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA	Aerospace Federally Funded Research and Development Center (The Aerospace Corp.), El Segundo, CA Project Air Force (RAND Corp. 4/), Santa Monica, CA	
Department of the Army 6/		Arroyo Center (RAND Corp.4/), Santa Monica, CA	
DEPARTMENT OF ENERGY 8/	Ames Laboratory (Iowa State University of Science and Technology), Ames, IA Argonne National Laboratory (University of Chicago), Argonne, IL	National Renewable Energy Laboratory 9/ (Midwest Research Institute), Golden, CO Pacific Northwest National Laboratory (Battelle Memorial Institute), Richland, WA	Idaho National Engineering Laboratory (Lockheed Martin Idaho Technologies Company), Idaho Falls, ID Oak Ridge National Laboratory (Lockheed Martin Energy Research Corp.), Oak Ridge, TN

See explanatory information, if any, and SOURCE at end of table.

Federally funded R&D centers, by agency and type of administration

Sponsoring agency	Administered by universities and colleges 1/	Administered by other nonprofit institutions 2/	Administered by industrial firms
DEPARTMENT OF ENERGY (continued)	Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY		Sandia National Laboratories (Sandia Corp., a subsidiary of Lockheed Martin Corp.), Albuquerque, NM
	Ernest Orlando Lawrence Berkeley National Laboratory (University of California), Berkeley, CA		Savannah River Technology Center (Westinghouse Savannah River Co.), Aiken, SC
	Fermi National Accelerator Laboratory (Universities Research Association, Inc.), Batavia, IL		
	Lawrence Livermore National Laboratory (University of California), Livermore, CA		
	Los Alamos National Laboratory (University of California), Los Alamos, NM		
	Oak Ridge Institute for Science and Education (Oak Ridge Associated Universities, Inc.), Oak Ridge, TN		
	Princeton Plasma Physics Laboratory (Princeton University), Princeton, NJ		
	Stanford Linear Accelerator Center (Leland Stanford Junior University), Stanford, CA		
	Thomas Jefferson National Accelerator Facility (Southeastern Universities Research Association, Inc.), Newport News, VA 10/		
DEPARTMENT OF HEALTH AND HUMAN SERVICES:			
National Institutes of Health			NCI Frederick Cancer Research and Development Center (Science Applications International Corp.; Advanced BioScience Laboratories, Inc.; Charles River Laboratories, Inc.; Data Management Services, Inc.), Frederick, MD
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA		

See explanatory information, if any, and SOURCE at end of table.

Federally funded R&D centers, by agency and type of administration

Sponsoring agency	Administered by universities and colleges 1/	Administered by other nonprofit institutions 2/	Administered by industrial firms
NATIONAL SCIENCE FOUNDATION	National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR National Center for Atmospheric Research (University Corp. for Atmospheric Research), Boulder, CO Boulder, CO National Optical Astronomy Observatories 11/ (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ National Radio Astronomy Observatory (Associated Universities, Inc.), Green Bank, WV	Critical Technologies Institute (RAND Corp. 4/), Washington, DC	
NUCLEAR REGULATORY COMMISSION		Center for Nuclear Waste Regulatory Analyses (Southwest Research Institute), San Antonio, TX	
DEPARTMENT OF TRANSPORTATION:			
Federal Aviation Administration		Center for Advanced Aviation System Development (MITRE Corp. 5/), McLean, VA	
DEPARTMENT OF THE TREASURY:			
Internal Revenue Service		Tax Systems Modernization Institute (IIT Research Institute), Lanham, MD	

1/ Includes university consortia

2/ That is, other than universities and colleges.

3/ Logistics Management Institute moved from Bethesda, MD, to McLean, VA, in May 1994.

4/ The following portions of the RAND Corp. are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, the Arroyo Center, and the Critical Technologies Institute. All other agency support to RAND is reported under "other nonprofit institutions excluding FFRDCs."

5/ Only the C3I Federally Funded Research and Development Center and the Center for Advanced Aviation System Development parts of the MITRE Corp. are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."

6/ The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX, as an FFRDC in November 1993.

7/ Although the Institute for Defense Analyses Communications and Computing FFRDC has been in existence since 1956, the Department of Defense added it to the Master Government List of FFRDCs for the first time in October 1995.

8/ The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs (1) the Energy Technology Engineering Center in November 1995 and (2) the Inhalation Toxicology Research Institute in May 1996.

9/ In September 1991 the name was changed from Solar Energy Research Institute.

10/ In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.

11/ Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory, and the National Solar Observatory (formerly Sacramento Peak Observatory).

SOURCE: National Science Foundation, Division of Science Resources Studies

Updates of this list and an Annotated List of FFRDCs are available at http://www.nsf.gov/sbe/srs/ffrdc/start.htm.

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TABLE NOTES

- Because of rounding, detail may not add to totals.

- Dashes or asterisks appearing in lieu of figures indicate that the amounts are less than 50 thousand dollars or less than 0.5 percent.

- The abbreviation "FFRDCs" appearing in statistical tables refers to federally funded research and development centers.

- In tables showing extramural performers, obligations of the U.S. Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.

- Defense agencies within the Department of Defense include the Ballistic Missile Defense Organization, the Defense Advanced Research Projects Agency, the Defense Information Systems Agency, the Defense Logistics Agency, the Defense Special Weapons Agency, the Joint Staff, the National Imagery and Mapping Agency, the Special Operations Command, and the Washington Headquarters Services.

- In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

Table C-1. Federal obligations for research and development, by character of work, and R&D plant: fiscal years 1951-98

[Dollars in thousands]

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Fiscal Years	Total	Total research and development	Research		Development	R&D Plant
			Basic	Applied		
1951	1,851,571	1,521,527	NA	NA	NA	330,044
1952	2,216,848	1,909,665	120,945	NA	NA	307,183
1953	2,167,456	1,919,543	115,997	NA	NA	247,913
1954	1,918,046	1,761,840	116,033	NA	NA	156,206
1955	2,251,894	2,044,593	130,068	NA	NA	207,301
1956	3,266,903	2,988,203	206,441	645,506	2,136,256	278,700
1957	4,389,237	3,932,001	262,348	662,199	3,007,454	457,236
1958	4,906,015	4,569,722	334,543	744,264	3,490,915	336,293
1959	7,122,610	6,693,510	465,981	874,272	5,353,257	429,100
1960	8,080,015	7,551,746	590,374	1,282,135	5,679,237	528,269
1961	9,607,023	9,058,623	814,513	1,663,431	6,580,679	548,400
1962	11,069,059	10,289,947	986,314	2,018,481	7,285,152	779,112
1963	13,662,879	12,494,611	1,151,753	2,356,150	8,966,708	1,168,268
1964	15,323,870	14,225,354	1,303,000	2,571,452	10,350,902	1,098,516
1965	15,745,852	14,614,249	1,435,469	2,811,761	10,367,019	1,131,603
1966	16,178,640	15,320,334	1,579,181	3,081,066	10,660,087	858,306
1967	17,149,186	16,529,099	1,845,847	2,785,543	11,897,709	620,087
1968	16,525,038	15,921,208	1,840,562	2,940,500	11,140,146	603,830
1969	16,309,900	15,640,888	1,944,773	2,700,117	10,995,998	669,012
1970	15,863,385	15,338,937	1,925,908	2,974,890	10,438,139	524,448
1971	16,153,756	15,542,512	1,960,141	3,143,030	10,419,341	611,244
1972	17,097,951	16,495,895	2,186,937	3,360,759	10,948,199	602,056
1973	17,574,486	16,800,153	2,232,006	3,349,423	11,218,724	774,333
1974	18,176,457	17,410,128	2,387,681	3,787,559	11,234,888	766,329
1975	19,859,548	19,038,818	2,588,427	4,141,281	12,309,110	820,730
1976	21,616,382	20,779,658	2,767,454	4,851,878	13,160,326	836,724
1977	24,817,577	23,450,377	3,258,640	5,255,475	14,936,262	1,367,200
1978	27,140,849	25,845,137	3,698,604	5,908,154	16,238,379	1,295,712
1979	29,620,597	28,145,142	4,192,665	6,342,340	17,610,127	1,475,455
1980	31,386,095	29,830,432	4,674,156	6,923,222	18,233,054	1,555,663
1981	34,589,634	33,103,924	5,041,295	7,171,485	20,891,144	1,485,710
1982	37,822,363	36,432,589	5,481,605	7,540,580	23,410,404	1,389,774
1983	40,009,032	38,711,537	6,260,131	7,993,394	24,458,012	1,297,495
1984	44,012,149	42,224,865	7,067,359	7,911,414	27,246,092	1,787,284
1985	50,180,369	48,359,565	7,818,682	8,314,739	32,226,144	1,820,804
1986	52,951,181	51,412,364	8,153,076	8,349,123	34,910,165	1,538,817
1987	57,099,656	55,253,693	8,942,425	8,998,096	37,313,172	1,845,963
1988	58,826,512	56,769,425	9,473,618	9,176,527	38,119,280	2,057,087
1989	63,571,605	61,406,484	10,602,011	10,163,520	40,640,953	2,165,121
1990	65,831,189	63,559,471	11,285,593	10,336,771	41,937,107	2,271,718
1991	64,147,951	61,295,152	12,170,794	11,797,583	37,326,775	2,852,799
1992	68,577,184	65,592,590	12,489,864	12,000,734	41,101,992	2,984,594
1993	70,414,697	67,314,025	13,399,121	13,491,376	40,423,528	3,100,672
1994	69,428,192	67,256,996	13,545,082	13,887,733	39,824,181	2,171,196
1995	70,997,282	68,736,398	13,892,814	14,677,088	40,166,496	2,260,884
1996	69,408,737	67,662,620	14,462,383	13,802,717	39,397,520	1,746,117
1997 (Preliminary)	71,996,143	69,972,891	14,958,662	14,526,490	40,487,739	2,023,252
1998 (Preliminary)	71,592,739	69,838,409	15,204,716	15,013,891	39,619,802	1,754,330

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-2. Summary of Federal funds for research and development and for R&D plant: fiscal years 1996, 1997, and 1998

[In millions of dollars and percentages]

Page 1 of 2

Item	1996	Preliminary			
		1997	Percentage change 1996-97	1998	Percentage change 1997-98
Total outlays for research and development and for R&D plant	$67,756.1	$70,023.0	3.3	$69,499.9	-0.7
Research and development	65,909.9	68,057.5	3.3	67,585.1	-.7
R&D plant	1,846.2	1,965.5	6.5	1,914.8	-2.6
Total obligations for research and development and for R&D plant	69,408.7	71,996.1	3.7	71,592.7	-.6
Research and development, total	67,662.6	69,972.9	3.4	69,838.4	-.2
By performers:					
Intramural[1]	16,596.4	17,438.4	5.1	16,806.5	-3.6
Industrial firms	30,361.4	31,519.7	3.8	31,727.2	.7
FFRDCs administered by industrial firms	1,137.0	1,111.3	-2.3	1,190.7	7.1
Universities and colleges	11,944.7	12,340.6	3.3	12,515.0	1.4
FFRDCs administered by universities and colleges	3,447.7	3,369.7	-2.3	3,347.2	-.7
Other nonprofit institutions	2,886.9	2,938.1	1.8	3,033.1	3.2
FFRDCs administered by nonprofit institutions	754.5	732.1	-3.0	746.2	1.9
State and local governments	246.7	245.2	-.6	194.7	-20.6
Foreign	287.4	277.7	-3.4	277.8	*
Research, total	28,265.1	29,485.2	4.3	30,218.6	2.5
By performers:					
Intramural[1]	7,528.2	7,887.9	4.8	8,017.3	1.6
Industrial firms	4,291.3	4,601.6	7.2	4,760.6	3.5
FFRDCs administered by industrial firms	696.2	722.5	3.8	751.3	4.0
Universities and colleges	10,673.7	11,120.2	4.2	11,327.5	1.9
FFRDCs administered by universities and colleges	2,386.0	2,404.7	.8	2,506.0	4.2
Other nonprofit institutions	2,179.5	2,242.4	2.9	2,345.6	4.6
FFRDCs administered by nonprofit institutions	195.8	211.2	7.9	224.3	6.2
State and local governments	187.4	171.7	-8.4	163.2	-4.9
Foreign	126.8	122.8	-3.2	122.7	-.1
By fields of science:					
Life sciences	12,099.7	12,805.0	5.8	13,008.5	1.6
Psychology	513.0	544.4	6.1	544.9	.1
Physical sciences	3,964.4	4,277.7	7.9	4,100.1	-4.2
Environmental sciences	2,997.0	3,010.6	.5	3,129.2	3.9
Mathematics and computer sciences	1,554.1	1,675.6	7.8	1,959.5	16.9
Engineering	5,679.6	5,565.3	-2.0	5,830.4	4.8
Social sciences	674.2	749.1	11.1	786.9	5.1
Other sciences, n.e.c.	783.0	857.4	9.5	859.1	.2
Basic research, total	14,462.4	14,958.7	3.4	15,204.7	1.6
By performers:					
Intramural[1]	2,689.2	2,756.4	2.5	2,717.6	-1.4
Industrial firms	1,131.0	1,150.7	1.7	1,090.4	-5.2
FFRDCs administered by industrial firms	272.8	293.6	7.6	312.0	6.3
Universities and colleges	7,406.1	7,673.9	3.6	7,874.9	2.6
FFRDCs administered by universities and colleges	1,522.0	1,569.7	3.1	1,648.4	5.0
Other nonprofit institutions	1,235.2	1,303.0	5.5	1,330.8	2.1
FFRDCs administered by nonprofit institutions	76.5	83.0	8.5	103.8	25.0
State and local governments	80.2	78.1	-2.6	75.6	-3.3
Foreign	49.5	50.3	1.7	51.3	2.0
By fields of science:					
Life sciences	6,911.0	7,315.2	5.8	7,393.9	1.1
Psychology	281.5	298.2	5.9	302.0	1.3
Physical sciences	2,901.7	3,115.0	7.3	2,962.4	-4.9
Environmental sciences	1,531.2	1,514.8	-1.1	1,507.9	-.5
Mathematics and computer sciences	622.0	733.5	17.9	760.7	3.7
Engineering	1,606.6	1,338.8	-16.7	1,612.5	20.4
Social sciences	230.0	237.5	3.3	252.4	6.3
Other sciences, n.e.c.	378.3	405.7	7.2	412.9	1.8

See explanatory information, if any, and SOURCE at end of table.

Table C-2. Summary of Federal funds for research and development and for R&D plant: fiscal years 1996, 1997, and 1998

[In millions of dollars and percentages]

Page 2 of 2

Item	1996	Preliminary			
		1997	Percentage change 1996-97	1998	Percentage change 1997-98
Applied research, total	$13,802.7	$14,526.5	5.2	$15,013.9	3.4
By performers:					
Intramural[1]	4,839.0	5,131.4	6.0	5,299.7	3.3
Industrial firms	3,160.3	3,451.0	9.2	3,670.2	6.4
FFRDCs administered by industrial firms	423.4	428.9	1.3	439.3	2.4
Universities and colleges	3,267.6	3,446.4	5.5	3,452.6	.2
FFRDCs administered by universities and colleges	864.0	835.0	-3.3	857.6	2.7
Other nonprofit institutions	944.3	939.4	-.5	1,014.8	8.0
FFRDCs administered by nonprofit institutions	119.4	128.2	7.4	120.6	-6.0
State and local governments	107.3	93.6	-12.7	87.7	-6.3
Foreign	77.4	72.5	-6.3	71.4	-1.5
By fields of science:					
Life sciences	5,188.7	5,489.8	5.8	5,614.6	2.3
Psychology	231.5	246.2	6.4	242.9	-1.3
Physical sciences	1,062.7	1,162.7	9.4	1,137.6	-2.2
Environmental sciences	1,465.8	1,495.8	2.0	1,621.3	8.4
Mathematics and computer sciences	932.1	942.2	1.1	1,198.8	27.2
Engineering	4,073.0	4,226.4	3.8	4,217.9	-.2
Social sciences	444.2	511.6	15.2	534.5	4.5
Other sciences, n.e.c.	404.7	451.7	11.6	446.1	-1.2
Development, total	39,397.5	40,487.7	2.8	39,619.8	-2.1
By performers:					
Intramural[1]	9,068.1	9,550.5	5.3	8,789.1	-8.0
Industrial firms	26,070.1	26,918.1	3.3	26,966.6	.2
FFRDCs administered by industrial firms	440.7	388.9	-11.8	439.4	13.0
Universities and colleges	1,271.0	1,220.4	-4.0	1,187.5	-2.7
FFRDCs administered by universities and colleges	1,061.6	965.0	-9.1	841.2	-12.8
Other nonprofit institutions	707.4	695.7	-1.7	687.5	-1.2
FFRDCs administered by nonprofit institutions	558.7	520.8	-6.8	521.9	.2
State and local governments	59.3	73.5	24.0	31.5	-57.2
Foreign	160.5	154.8	-3.5	155.1	.2
R&D plant, total	1,746.1	2,023.3	15.9	1,754.3	-13.3
By performers supported					
Intramural	405.1	678.4	67.5	508.5	-25.0
Industrial firms	465.4	464.8	-.1	372.9	-19.8
FFRDCs administered by industrial firms	43.9	54.9	25.1	53.5	-2.5
Universities and colleges	243.1	187.1	-23.0	120.3	-35.7
FFRDCs administered by universities and colleges	497.8	564.0	13.3	671.3	19.0
Other nonprofit institutions	23.4	15.6	-33.6	6.7	-57.2
FFRDCs administered by nonprofit institutions	66.1	57.9	-12.4	20.6	-64.5
State and local governments	1.0	.5	-46.2	.5	.0
Foreign	.5	0	-100.0	0	.0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

NOTE: Because of rounding, detail may not add to totals. Percentages are computed using dollars in thousands

KEY:
* = Percentage less than .05%
FFRDCs = Federally funded research and development centers
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

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Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Total, all agencies	69,408.7	71,996.1	71,592.7	67,756.1	70,023.0	69,499.9
Departments:						
Department of Agriculture, total	1,430.4	1,561.9	1,475.8	1,439.9	1,537.2	1,539.4
Agricultural Marketing Service	4.9	4.8	4.8	4.5	4.8	4.8
Agricultural Research Service [1]	743.1	774.7	794.6	739.9	781.1	790.0
Animal & Plant Health Inspection Service	19.5	19.1	18.3	19.5	19.1	18.3
Cooperative State Research, Education, & Extension Service [2]	418.9	514.4	406.4	434.9	485.2	477.8
Economic Research Service	53.0	55.1	57.3	50.1	53.3	54.2
Food Safety Inspection Service	1.6	2.7	3.2	1.6	2.7	3.2
Foreign Agricultural Service [3]	1.3	1.4	1.4	1.3	1.4	1.4
Forest Service	180.4	181.8	181.8	180.4	181.8	181.8
Grain Inspection Packers & Stockyards Admin [4]	2.5	2.8	2.8	2.5	2.8	2.8
National Agricultural Statistics Service	3.8	3.9	4.0	3.7	3.8	3.9
Rural Business-Cooperative Service [5]	1.4	1.2	1.2	1.4	1.2	1.2
Department of Commerce, total	1,152.0	1,074.9	1,059.3	945.1	1,022.1	1,016.8
Bureau of the Census	6.3	4.9	4.9	6.6	5.1	5.1
Economic Development Administration	.6	.6	.6	.6	.6	.6
National Institute of Standards & Technology	601.0	511.7	510.3	404.9	463.1	473.9
National Oceanic & Atmospheric Administration	528.5	543.7	524.7	528.5	543.7	524.7
Nat'l Telecommunications & Information Admin	15.7	14.0	18.8	4.5	9.6	12.5
Office of the Secretary	-	-	-	.0	.0	.0
Department of Defense, total	34,541.7	34,995.8	34,117.5	35,202.1	34,463.8	32,487.0
Department of the Army, total	4,879.7	4,933.3	4,584.7	4,954.4	5,111.9	4,693.9
Department of the Army, Civil Functions [6]	29.4	30.9	52.9	29.4	30.9	52.9
Department of the Army, Military Functions	4,850.4	4,902.4	4,531.8	4,925.0	5,081.0	4,641.0
Department of the Navy	8,614.4	8,222.8	7,866.3	9,605.0	8,006.9	7,460.9
Department of the Air Force	13,066.5	13,951.0	14,451.0	13,474.4	13,862.1	13,754.3
Defense Agencies, total	7,701.5	7,625.3	6,922.3	6,899.1	7,183.2	6,286.4
Ballistic Missile Defense Organization	2,810.4	3,373.4	2,581.9	2,810.4	3,373.4	2,581.9
Defense Advanced Research Projects Agency [7]	2,550.4	2,109.7	2,197.0	2,342.7	2,238.6	2,192.8
Defense Information Systems Agency	65.0	55.6	57.8	70.6	52.9	50.6
Defense Logistics Agency	34.5	40.5	55.2	24.4	32.0	42.2
Defense Special Weapons Agency [8]	245.6	192.2	277.4	258.3	241.5	254.3
Joint Staff	5.5	35.8	67.2	5.5	35.8	67.2
Special Operations Command	164.0	133.7	124.3	245.2	198.8	134.4
Washington Headquarters Services [9] [10]	1,826.2	1,684.3	1,561.4	1,142.0	1,010.1	962.9
Operational Test & Evaluation, Director	21.9	25.0	23.5	22.1	23.8	23.4
Test & Evaluation, Deputy Under Secretary of Defense	257.7	238.4	269.7	247.1	275.8	268.2
Department of Education	173.7	192.1	227.5	172.0	180.6	201.7
Department of Energy	6,050.8	6,434.4	6,449.3	6,656.1	6,427.1	6,594.5
Department of Health & Human Services, total	12,086.2	13,136.6	13,323.9	10,419.0	12,355.9	12,958.6
Administration on Aging	3.7	4.4	4.4	2.9	4.0	4.0
Administration for Children & Families	12.6	21.2	31.3	11.9	14.2	18.7
Agency for Health Care Policy & Research	125.2	143.6	149.0	80.0	95.0	88.0
Centers for Disease Control & Prevention	296.7	345.7	358.5	296.7	345.7	358.5
Food & Drug Administration	176.4	173.7	188.1	138.8	136.2	148.1
Health Care Financing Administration	52.7	44.0	45.0	75.4	77.2	55.1
Health Resources & Services Administration	11.8	12.0	9.4	11.9	12.1	9.4
National Institutes of Health [11]	11,377.9	12,352.1	12,508.5	9,779.8	11,636.2	12,253.4
Office of the Secretary, total	12.7	20.4	10.1	5.0	15.8	3.7
Office of the Assistant Secretary, Planning & Evaluation	9.0	18.5	9.0	3.0	13.0	3.0
Office of Public Health & Science	3.7	1.9	1.1	2.0	2.8	.7
Substance Abuse & Mental Health Svcs Admin	16.7	19.4	19.6	16.7	19.4	19.6

See explanatory information, if any, and SOURCE at end of table.

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

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Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Department of Housing & Urban Development	33.1	36.2	39.5	36.2	32.6	36.9
Department of the Interior, total	569.5	583.2	597.8	547.2	596.0	599.7
Bureau of Reclamation	6.5	7.6	7.8	6.5	7.6	7.8
Geological Survey[12]	520.1	528.9	540.1	498.6	543.5	543.5
Minerals Management Service	22.6	23.3	23.9	21.7	21.6	22.5
National Park Service[13]	20.2	23.3	25.9	20.2	23.3	25.9
Department of Justice, total	77.3	89.5	85.2	72.7	75.6	80.4
Bureau of Prisons	5.2	4.8	4.9	5.2	4.8	4.9
Drug Enforcement Administration	1.2	.5	.5	1.2	.5	.5
Federal Bureau of Investigation	33.5	35.9	35.9	33.5	35.9	35.9
Immigration & Naturalization Service	.2	.4	.4	.2	.4	.4
Office of Justice Programs	37.2	48.0	43.4	32.6	34.1	38.7
Department of Labor, total	52.4	40.6	38.0	50.1	45.7	41.2
Bureau of Labor Statistics	13.3	12.6	12.4	13.3	12.6	12.4
Employment & Training Administration	26.9	18.8	16.6	24.6	23.8	19.8
Occupational Safety & Health Administration	6.6	3.9	4.1	6.6	3.9	4.0
Office of the Secretary	2.6	2.3	1.9	2.6	2.3	1.9
Pension Benefit Guaranty Corporation	.7	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.3	2.4	2.4	2.3	2.4	2.4
Department of State, total	.9	.8	.8	1.0	.9	.9
Department of Transportation, total	584.3	673.3	684.1	593.0	546.5	811.3
Coast Guard	20.5	25.5	20.2	23.4	26.7	20.9
Federal Aviation Administration	228.9	262.8	243.0	265.8	278.4	268.6
Federal Highway Administration	247.3	289.9	329.2	236.5	123.6	418.9
Federal Railroad Administration	30.1	23.1	21.6	20.0	37.3	26.7
Federal Transit Administration	13.7	19.9	15.7	22.4	23.5	22.1
National Highway Traffic Safety Admin	33.2	36.5	42.0	15.0	44.9	41.9
Office of the Secretary	2.8	2.7	4.3	2.8	2.7	4.3
Research & Special Programs Administration	7.7	12.9	8.0	7.0	9.5	8.0
Department of the Treasury, total	60.2	58.8	53.1	60.2	58.1	53.5
Bureau of Engraving & Printing	1.7	1.6	1.9	1.7	1.6	1.9
Internal Revenue Service	51.2	48.7	41.1	51.2	48.7	41.1
Office of Thrift Supervision	.5	.6	.6	.5	.6	.6
United States Customs Service	6.3	6.3	8.9	6.3	6.3	8.9
United States Mint	.0	1.1	.0	.0	.3	.4
United States Secret Service[14]	.5	.6	.6	.5	.6	.6
Department of Veterans Affairs	259.9	292.4	248.6	240.6	269.8	251.5
Other agencies:						
Appalachian Regional Commission	.9	.9	.9	.9	.9	.9
Consumer Product Safety Commission	-	.0	.2	.1	-	.2
Environmental Protection Agency	464.3	504.0	553.9	476.3	493.8	526.0
Federal Communications Commission	2.8	3.4	3.2	2.8	3.4	3.2
Federal Trade Commission	.5	.5	.5	.5	.5	.5
General Services Administration	.1	.1	.0	4.1	2.5	.0
Internat'l Dvlpmt Cooperation Agcy, total	223.0	169.0	225.0	251.0	221.0	294.0
Agency for International Development[15]	223.0	169.0	225.0	251.0	221.0	294.0
Library of Congress	10.6	9.9	11.7	11.0	10.2	11.0
National Aeronautics & Space Administration	8,987.5	9,414.8	9,598.8	8,094.0	8,974.0	9,305.0
National Archives & Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	2,375.5	2,424.2	2,519.2	2,212.0	2,413.0	2,413.0
Nuclear Regulatory Commission	70.9	57.0	53.9	75.2	57.6	55.1
Smithsonian Institution	132.0	133.5	137.0	125.0	126.0	129.5
Social Security Administration[16]	11.5	38.3	37.1	11.5	38.3	37.1
Tennessee Valley Authority	52.6	62.7	44.0	52.6	62.7	44.0

See explanatory information, if any, and SOURCE at end of table

Table C-3. Federal funds for research and development and for R&D plant, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

Page 3 of 3

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
United States Arms Control & Disarmament Agency	0.7	1.2	1.0	0.7	1.2	1.0
United States Information Agency	.1	.1	.1	.1	.1	.1
United States International Trade Commission	3.2	5.8	6.0	3.2	5.8	6.0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-4. Federal funds for total research and development, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

Page 1 of 3

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Total, all agencies	67,662.6	69,972.9	69,838.4	65,909.9	68,057.5	67,585.1
Departments:						
Department of Agriculture, total	1,302.0	1,406.8	1,376.0	1,337.3	1,357.8	1,363.3
Agricultural Marketing Service	4.9	4.8	4.8	4.5	4.8	4.8
Agricultural Research Service[1]	675.2	687.1	696.8	672.4	684.1	692.2
Animal & Plant Health Inspection Service	18.0	19.1	18.3	18.0	19.1	18.3
Cooperative State Research, Education, & Extension Service[2]	362.4	448.8	406.4	403.8	404.8	401.5
Economic Research Service	53.0	55.1	57.3	50.1	53.3	54.2
Food Safety Inspection Service	1.6	2.7	3.2	1.6	2.7	3.2
Foreign Agricultural Service[3]	1.3	1.4	1.4	1.3	1.4	1.4
Forest Service	177.9	179.8	179.8	177.9	179.8	179.8
Grain Inspection Packers & Stockyards Admin[4]	2.5	2.8	2.8	2.5	2.8	2.8
National Agricultural Statistics Service	3.8	3.9	4.0	3.7	3.8	3.9
Rural Business-Cooperative Service[5]	1.4	1.2	1.2	1.4	1.2	1.2
Department of Commerce, total	1,067.5	1,044.8	1,035.9	918.1	991.8	987.2
Bureau of the Census	6.3	4.9	4.9	6.6	5.1	5.1
Economic Development Administration	.6	.6	.6	.6	.6	.6
National Institute of Standards & Technology	516.5	481.7	486.9	378.0	432.7	444.3
National Oceanic & Atmospheric Administration	528.5	543.7	524.7	528.5	543.7	524.7
Nat'l Telecommunications & Information Admin	15.7	14.0	18.8	4.5	9.6	12.5
Office of the Secretary	-	-	-	.0	.0	.0
Department of Defense, total	34,494.9	34,918.2	34,030.4	35,106.8	34,412.3	32,433.7
Department of the Army, total	4,873.6	4,929.3	4,580.4	4,948.7	5,107.2	4,689.6
Department of the Army, Civil Functions[6]	29.4	30.9	52.9	29.4	30.9	52.9
Department of the Army, Military Functions	4,844.2	4,898.4	4,527.4	4,919.4	5,076.2	4,636.6
Department of the Navy	8,606.4	8,184.6	7,824.5	9,578.5	7,989.3	7,435.5
Department of the Air Force	13,042.1	13,917.4	14,412.9	13,420.3	13,837.1	13,733.5
Defense Agencies, total	7,693.3	7,623.4	6,919.5	6,890.2	7,179.1	6,283.6
Ballistic Missile Defense Organization	2,802.4	3,371.8	2,579.3	2,802.4	3,371.8	2,579.3
Defense Advanced Research Projects Agency[7]	2,550.4	2,109.7	2,197.0	2,342.7	2,238.6	2,192.8
Defense Information Systems Agency	65.0	55.6	57.8	70.6	52.9	50.6
Defense Logistics Agency	34.3	40.3	55.0	24.2	31.8	42.0
Defense Special Weapons Agency[8]	245.6	192.2	277.4	257.6	239.3	254.3
Joint Staff	5.5	35.8	67.2	5.5	35.8	67.2
Special Operations Command	164.0	133.7	124.3	245.2	198.8	134.4
Washington Headquarters Services[9] [10]	1,826.2	1,684.3	1,561.4	1,142.0	1,010.1	962.9
Operational Test & Evaluation, Director	21.9	25.0	23.5	22.1	23.8	23.4
Test & Evaluation, Deputy Under Secretary of Defense	257.7	238.4	269.7	247.1	275.8	268.2
Department of Education	173.7	190.1	225.5	172.0	178.7	199.6
Department of Energy	5,344.9	5,687.2	5,636.3	5,846.2	5,584.8	5,766.7
Department of Health & Human Services, total	11,953.1	12,763.7	13,127.4	10,278.5	12,172.9	12,745.5
Administration on Aging	3.7	4.4	4.4	2.9	4.0	4.0
Administration for Children & Families	12.6	21.2	31.3	11.9	14.2	18.7
Agency for Health Care Policy & Research	125.2	143.6	149.0	80.0	95.0	88.0
Centers for Disease Control & Prevention	296.7	345.7	358.5	296.7	345.7	358.5
Food & Drug Administration	170.8	170.3	181.6	133.3	132.9	141.7
Health Care Financing Administration	52.7	44.0	45.0	75.4	77.2	55.1
Health Resources & Services Administration	11.1	11.3	9.4	11.2	11.4	9.4
National Institutes of Health[11]	11,251.0	11,983.3	12,318.5	9,645.6	11,457.3	12,046.7
Office of the Secretary, total	12.7	20.4	10.1	5.0	15.8	3.7
Office of the Assistant Secretary, Planning & Evaluation	9.0	18.5	9.0	3.0	13.0	3.0
Office of Public Health & Science	3.7	1.9	1.1	2.0	2.8	.7
Substance Abuse & Mental Health Svcs Admin	16.7	19.4	19.6	16.7	19.4	19.6

See explanatory information, if any, and SOURCE at end of table.

Table C-4. Federal funds for total research and development, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

Page 2 of 3

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Department of Housing & Urban Development	33.1	36.2	39.5	36.2	32.6	36.9
Department of the Interior, total	567.5	576.2	595.6	545.1	589.9	598.6
Bureau of Reclamation	6.5	7.6	7.8	6.5	7.6	7.8
Geological Survey[12]	518.9	524.0	539.0	497.6	538.3	542.4
Minerals Management Service	21.9	21.3	22.9	20.7	20.6	22.5
National Park Service[13]	20.2	23.3	25.9	20.2	23.3	25.9
Department of Justice, total	77.3	89.5	85.2	72.7	75.6	80.4
Bureau of Prisons	5.2	4.8	4.9	5.2	4.8	4.9
Drug Enforcement Administration	1.2	.5	.5	1.2	.5	.5
Federal Bureau of Investigation	33.5	35.9	35.9	33.5	35.9	35.9
Immigration & Naturalization Service	.2	.4	.4	.2	.4	.4
Office of Justice Programs	37.2	48.0	43.4	32.6	34.1	38.7
Department of Labor, total	52.4	40.6	38.0	50.1	45.7	41.2
Bureau of Labor Statistics	13.3	12.6	12.4	13.3	12.6	12.4
Employment & Training Administration	26.9	18.8	16.6	24.6	23.8	19.8
Occupational Safety & Health Administration	6.6	3.9	4.1	6.6	3.9	4.0
Office of the Secretary	2.6	2.3	1.9	2.6	2.3	1.9
Pension Benefit Guaranty Corporation	.7	.7	.7	.6	.7	.7
Pension & Welfare Benefits Administration	2.3	2.4	2.4	2.3	2.4	2.4
Department of State, total	.9	.8	.8	1.0	.9	.9
Department of Transportation, total	552.5	651.2	666.1	578.8	524.7	791.2
Coast Guard	20.0	25.0	19.7	22.8	26.1	20.3
Federal Aviation Administration	208.3	245.6	228.7	259.8	260.4	253.6
Federal Highway Administration	240.0	288.9	326.9	230.4	123.0	416.8
Federal Railroad Administration	26.7	19.7	20.8	18.5	34.5	24.2
Federal Transit Administration	13.7	19.9	15.7	22.4	23.5	22.1
National Highway Traffic Safety Admin	33.2	36.5	42.0	15.0	44.9	41.9
Office of the Secretary	2.8	2.7	4.3	2.8	2.7	4.3
Research & Special Programs Administration	7.7	12.9	8.0	7.0	9.5	8.0
Department of the Treasury, total	60.0	58.6	52.9	60.0	57.9	53.3
Bureau of Engraving & Printing	1.7	1.6	1.9	1.7	1.6	1.9
Internal Revenue Service	51.2	48.7	41.1	51.2	48.7	41.1
Office of Thrift Supervision	.5	.6	.6	.5	.6	.6
United States Customs Service	6.2	6.1	8.8	6.2	6.1	8.8
United States Mint	.0	1.1	.0	.0	.3	4
United States Secret Service[14]	.5	.6	.6	.5	.6	6
Department of Veterans Affairs	256.1	276.0	240.3	232.1	260.5	241.6
Other agencies:						
Appalachian Regional Commission	9	.9	.9	.9	.9	.9
Consumer Product Safety Commission	-	.0	.2	.1	-	.2
Environmental Protection Agency	464.3	504.0	553.9	476.3	493.8	526.0
Federal Communications Commission	2.8	3.4	3.2	2.8	3.4	3.2
Federal Trade Commission	.5	.5	.5	.5	.5	.5
Internat'l Dvlpmt Cooperation Agcy, total	223.0	169.0	225.0	251.0	221.0	294.0
Agency for International Development[15]	223.0	169.0	225.0	251.0	221.0	294.0
Library of Congress	10.6	9.9	11.7	11.0	10.2	11.0
National Aeronautics & Space Administration	8,570.1	8,993.6	9,272.0	7,614.0	8,580.0	8,961.0
National Archives & Records Administration	.1	.1	.1	.1	.1	.1
National Science Foundation	2,188.3	2,257.5	2,346.9	2,054.0	2,174.0	2,180.0
Nuclear Regulatory Commission	70.9	57.0	53.9	75.2	57.6	55.1
Smithsonian Institution	127.0	129.0	132.0	121.0	122.0	125.0
Social Security Administration[16]	11.5	38.3	37.1	11.5	38.3	37.1
Tennessee Valley Authority	52.6	62.7	44.0	52.6	62.7	44.0

See explanatory information, if any, and SOURCE at end of table.

Table C-4. Federal funds for total research and development, by agency: fiscal years 1996, 1997, and 1998

[Dollars in millions]

Page 3 of 3

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
United States Arms Control & Disarmament Agency	0.7	1.2	1.0	0.7	1.2	1.0
United States Information Agency	.1	.1	.1	1	.1	.1
United States International Trade Commission	3.2	5.8	6.0	3.2	5.8	6.0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1996

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	67,662,620	14,462,383	13,802,717	39,397,520	NA	NA
Departments:						
Department of Agriculture, total	1,301,956	549,980	671,669	80,307	NA	NA
Agricultural Marketing Service	4,854	0	4,226	628	NA	NA
Agricultural Research Service[1]	675,179	364,597	256,568	54,014	NA	NA
Animal & Plant Health Inspection Service	18,035	0	0	18,035	NA	NA
Cooperative State Research, Education, & Extension Service[2]	362,419	148,683	213,736	0	NA	NA
Economic Research Service	52,950	5,295	47,655	0	NA	NA
Food Safety Inspection Service	1,645	0	1,645	0	NA	NA
Foreign Agricultural Service[3]	1,290	856	434	0	NA	NA
Forest Service	177,900	29,300	143,000	5,600	NA	NA
Grain Inspection Packers & Stockyards Admin[4]	2,537	0	507	2,030	NA	NA
National Agricultural Statistics Service	3,796	1,249	2,547	0	NA	NA
Rural Business-Cooperative Service[5]	1,351	0	1,351	0	NA	NA
Department of Commerce, total	1,067,520	37,536	813,064	216,920	NA	NA
Bureau of the Census	6,258	850	1,600	3,808	NA	NA
Economic Development Administration	591	0	591	0	NA	NA
National Institute of Standards & Technology	516,482	36,686	318,154	161,642	NA	NA
National Oceanic & Atmospheric Administration	528,510	0	480,806	47,704	NA	NA
Nat'l Telecommunications & Information Admin	15,651	0	11,885	3,766	NA	NA
Office of the Secretary	28	0	28	0	NA	NA
Department of Defense, total	34,494,909	1,137,866	2,857,639	30,499,404	NA	NA
Department of the Army, total	4,873,550	195,097	475,303	4,203,150	NA	NA
Department of the Army, Civil Functions[6]	29,367	4,795	12,825	11,747	NA	NA
Department of the Army, Military Functions	4,844,183	190,302	462,478	4,191,403	695,207	3,496,196
Department of the Navy	8,606,391	376,671	516,813	7,712,907	454,795	7,258,112
Department of the Air Force	13,042,124	227,886	654,409	12,159,829	494,714	11,665,115
Defense Agencies, total	7,693,282	338,212	1,211,114	6,143,956	2,803,954	3,340,002
Ballistic Missile Defense Organization	2,802,386	5,224	87,205	2,709,957	639,681	2,070,276
Defense Advanced Research Projects Agency[7]	2,550,353	78,952	799,816	1,671,585	1,606,862	64,723
Defense Information Systems Agency	64,997	0	1,648	63,349	0	63,349
Defense Logistics Agency	34,328	0	7,950	26,378	17,671	8,707
Defense Special Weapons Agency[8]	245,553	0	214,811	30,742	30,742	0
Joint Staff	5,526	0	0	5,526	5,526	0
Special Operations Command	163,979	0	25,567	138,412	58,091	80,321
Washington Headquarters Services[9] [10]	1,826,160	254,036	74,117	1,498,007	445,381	1,052,626
Operational Test & Evaluation, Director	21,895	0	0	21,895	0	21,895
Test & Evaluation, Deputy Under Secretary of Defense	257,667	0	0	257,667	0	257,667
Department of Education	173,690	3,459	132,054	38,177	NA	NA
Department of Energy	5,344,937	1,929,656	1,432,497	1,982,784	NA	NA
Department of Health & Human Services, total	11,953,107	6,504,626	4,041,256	1,407,225	NA	NA
Administration on Aging	3,704	0	171	3,533	NA	NA
Administration for Children & Families	12,567	0	12,567	0	NA	NA
Agency for Health Care Policy & Research	125,161	0	115,999	9,162	NA	NA
Centers for Disease Control & Prevention	296,672	0	296,672	0	NA	NA
Food & Drug Administration	170,844	0	170,844	0	NA	NA
Health Care Financing Administration	52,685	0	52,685	0	NA	NA
Health Resources & Services Administration	11,063	1,000	10,063	0	NA	NA
National Institutes of Health[11]	11,250,983	6,503,626	3,373,287	1,374,070	NA	NA
Office of the Secretary, total	12,710	0	8,968	3,742	NA	NA
Office of the Assistant Secretary, Planning & Evaluation	8,968	0	8,968	0	NA	NA
Office of Public Health & Science	3,742	0	0	3,742	NA	NA
Substance Abuse & Mental Health Svcs Admin	16,718	0	0	16,718	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1996

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of Housing & Urban Development	33,120	0	11,166	21,954	NA	NA
Department of the Interior, total	567,535	56,038	486,036	25,461	NA	NA
Bureau of Reclamation	6,531	0	4,901	1,630	NA	NA
Geological Survey[12]	518,902	55,538	439,533	23,831	NA	NA
Minerals Management Service	21,856	0	21,856	0	NA	NA
National Park Service[13]	20,246	500	19,746	0	NA	NA
Department of Justice, total	77,287	12,564	19,482	45,241	NA	NA
Bureau of Prisons	5,248	0	3,094	2,154	NA	NA
Drug Enforcement Administration	1,200	0	45	1,155	NA	NA
Federal Bureau of Investigation	33,458	0	0	33,458	NA	NA
Immigration & Naturalization Service	211	0	211	0	NA	NA
Office of Justice Programs	37,170	12,564	16,132	8,474	NA	NA
Department of Labor, total	52,424	11,500	15,172	25,752	NA	NA
Bureau of Labor Statistics	13,300	11,500	1,800	0	NA	NA
Employment & Training Administration	26,922	0	2,622	24,300	NA	NA
Occupational Safety & Health Administration	6,602	0	6,602	0	NA	NA
Office of the Secretary	2,594	0	1,764	830	NA	NA
Pension Benefit Guaranty Corporation	675	0	53	622	NA	NA
Pension & Welfare Benefits Administration	2,331	0	2,331	0	NA	NA
Department of State, total	924	0	924	0	NA	NA
Department of Transportation, total	552,457	41,256	336,702	174,499	NA	NA
Coast Guard	20,012	0	5,004	15,008	NA	NA
Federal Aviation Administration	208,322	0	130,597	77,725	NA	NA
Federal Highway Administration	240,007	38,448	135,446	66,113	NA	NA
Federal Railroad Administration	26,703	0	21,303	5,400	NA	NA
Federal Transit Administration	13,710	0	5,582	8,128	NA	NA
National Highway Traffic Safety Admin	33,163	0	33,163	0	NA	NA
Office of the Secretary	2,808	2,808	0	0	NA	NA
Research & Special Programs Administration	7,732	0	5,607	2,125	NA	NA
Department of the Treasury, total	60,036	45	50,443	9,548	NA	NA
Bureau of Engraving & Printing	1,670	45	1,518	107	NA	NA
Internal Revenue Service	51,200	0	47,454	3,746	NA	NA
Office of Thrift Supervision	537	0	537	0	NA	NA
United States Customs Service	6,175	0	480	5,695	NA	NA
United States Secret Service[14]	454	0	454	0	NA	NA
Department of Veterans Affairs	256,075	12,483	222,801	20,791	NA	NA
Other agencies:						
Appalachian Regional Commission	900	0	900	0	NA	NA
Consumer Product Safety Commission	30	0	0	30	NA	NA
Environmental Protection Agency	464,300	51,700	329,100	83,500	NA	NA
Federal Communications Commission	2,801	0	2,801	0	NA	NA
Federal Trade Commission	505	0	505	0	NA	NA
Internat'l Dvlpmt Cooperation Agcy, total	223,000	2,000	203,000	18,000	NA	NA
Agency for International Development[15]	223,000	2,000	203,000	18,000	NA	NA
Library of Congress	10,579	518	1,647	8,414	NA	NA
National Aeronautics & Space Administration	8,570,100	1,980,935	1,897,097	4,692,068	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,188,313	2,002,895	185,418	0	NA	NA
Nuclear Regulatory Commission	70,909	0	70,909	0	NA	NA
Smithsonian Institution	127,000	127,000	0	0	NA	NA
Social Security Administration[16]	11,528	0	11,528	0	NA	NA
Tennessee Valley Authority	52,567	326	4,796	47,445	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-5. Federal obligations for total research and development, by agency and character of work: fiscal year 1996

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Arms Control & Disarmament Agency	654	0	654	0	NA	NA
United States Information Agency	149	0	149	0	NA	NA
United States International Trade Commission	3,188	0	3,188	0	NA	NA

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency).

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	69,972,891	14,958,662	14,526,490	40,487,739	NA	NA
Departments:						
Department of Agriculture, total	1,406,753	600,159	717,498	89,096	NA	NA
Agricultural Marketing Service	4,809	0	4,191	618	NA	NA
Agricultural Research Service[1]	687,108	364,167	261,101	61,840	NA	NA
Animal & Plant Health Inspection Service	19,136	0	0	19,136	NA	NA
Cooperative State Research, Education, & Extension Service[2]	448,824	198,769	250,055	0	NA	NA
Economic Research Service	55,109	5,310	49,799	0	NA	NA
Food Safety Inspection Service	2,700	0	2,700	0	NA	NA
Foreign Agricultural Service[3]	1,422	922	500	0	NA	NA
Forest Service	179,800	29,700	144,800	5,300	NA	NA
Grain Inspection Packers & Stockyards Admin[4]	2,752	0	550	2,202	NA	NA
National Agricultural Statistics Service	3,925	1,291	2,634	0	NA	NA
Rural Business-Cooperative Service[5]	1,168	0	1,168	0	NA	NA
Department of Commerce, total	1,044,846	41,234	812,700	190,912	NA	NA
Bureau of the Census	4,886	1,010	2,240	1,636	NA	NA
Economic Development Administration	550	0	550	0	NA	NA
National Institute of Standards & Technology	481,692	40,224	302,912	138,556	NA	NA
National Oceanic & Atmospheric Administration	543,703	0	496,433	47,270	NA	NA
Nat'l Telecommunications & Information Admin	13,987	0	10,537	3,450	NA	NA
Office of the Secretary	28	0	28	0	NA	NA
Department of Defense, total	34,918,156	1,029,402	2,867,929	31,020,825	NA	NA
Department of the Army, total	4,929,310	175,377	551,866	4,202,067	NA	NA
Department of the Army, Civil Functions[6]	30,941	3,803	14,762	12,376	NA	NA
Department of the Army, Military Functions	4,898,369	171,574	537,104	4,189,691	736,388	3,453,303
Department of the Navy	8,184,590	338,287	574,559	7,271,744	547,033	6,724,711
Department of the Air Force	13,917,408	211,265	651,477	13,054,666	398,693	12,655,973
Defense Agencies, total	7,623,424	304,473	1,090,027	6,228,924	2,716,508	3,512,416
Ballistic Missile Defense Organization	3,371,756	8,116	150,529	3,213,111	872,142	2,340,969
Defense Advanced Research Projects Agency[7]	2,109,725	82,343	682,527	1,344,855	1,260,310	84,545
Defense Information Systems Agency	55,629	0	1,508	54,121	0	54,121
Defense Logistics Agency	40,266	0	7,053	33,213	25,458	7,755
Defense Special Weapons Agency[8]	192,234	0	169,920	22,314	22,314	0
Joint Staff	35,836	0	0	35,836	35,836	0
Special Operations Command	133,662	0	17,249	116,413	48,867	67,546
Washington Headquarters Services[9] [10]	1,684,316	214,014	61,241	1,409,061	451,581	957,480
Operational Test & Evaluation, Director	24,994	0	0	24,994	0	24,994
Test & Evaluation, Deputy Under Secretary of Defense	238,430	0	0	238,430	0	238,430
Department of Education	190,051	3,104	143,949	42,998	NA	NA
Department of Energy	5,687,196	2,004,023	1,494,042	2,189,131	NA	NA
Department of Health & Human Services, total	12,763,659	6,940,112	4,335,769	1,487,778	NA	NA
Administration on Aging	4,426	0	475	3,951	NA	NA
Administration for Children & Families	21,164	0	21,164	0	NA	NA
Agency for Health Care Policy & Research	143,587	0	133,919	9,668	NA	NA
Centers for Disease Control & Prevention	345,748	0	345,748	0	NA	NA
Food & Drug Administration	170,322	0	170,322	0	NA	NA
Health Care Financing Administration	44,000	0	44,000	0	NA	NA
Health Resources & Services Administration	11,335	1,000	10,335	0	NA	NA
National Institutes of Health[11]	11,983,292	6,939,112	3,591,320	1,452,860	NA	NA
Office of the Secretary, total	20,392	0	18,486	1,906	NA	NA
Office of the Assistant Secretary, Planning & Evaluation	18,486	0	18,486	0	NA	NA
Office of Public Health & Science	1,906	0	0	1,906	NA	NA
Substance Abuse & Mental Health Svcs Admin	19,393	0	0	19,393	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1997

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of Housing & Urban Development	36,173	0	12,785	23,388	NA	NA
Department of the Interior, total	576,218	56,410	492,352	27,456	NA	NA
Bureau of Reclamation	7,641	0	5,731	1,910	NA	NA
Geological Survey[12]	523,950	55,910	442,494	25,546	NA	NA
Minerals Management Service	21,307	0	21,307	0	NA	NA
National Park Service[13]	23,320	500	22,820	0	NA	NA
Department of Justice, total	89,538	11,562	22,991	54,985	NA	NA
Bureau of Prisons	4,755	0	2,500	2,255	NA	NA
Drug Enforcement Administration	500	0	50	450	NA	NA
Federal Bureau of Investigation	35,880	0	0	35,880	NA	NA
Immigration & Naturalization Service	400	0	400	0	NA	NA
Office of Justice Programs	48,003	11,562	20,041	16,400	NA	NA
Department of Labor, total	40,617	11,300	10,765	18,552	NA	NA
Bureau of Labor Statistics	12,600	11,300	1,300	0	NA	NA
Employment & Training Administration	18,770	0	1,943	16,827	NA	NA
Occupational Safety & Health Administration	3,895	0	3,895	0	NA	NA
Office of the Secretary	2,299	0	1,176	1,123	NA	NA
Pension Benefit Guaranty Corporation	656	0	54	602	NA	NA
Pension & Welfare Benefits Administration	2,397	0	2,397	0	NA	NA
Department of State, total	833	0	833	0	NA	NA
Department of Transportation, total	651,196	33,528	411,980	205,688	NA	NA
Coast Guard	24,960	0	6,240	18,720	NA	NA
Federal Aviation Administration	245,581	0	163,475	82,106	NA	NA
Federal Highway Administration	288,923	30,810	170,627	87,486	NA	NA
Federal Railroad Administration	19,672	0	19,022	650	NA	NA
Federal Transit Administration	19,879	0	5,682	14,197	NA	NA
National Highway Traffic Safety Admin	36,539	0	36,539	0	NA	NA
Office of the Secretary	2,718	2,718	0	0	NA	NA
Research & Special Programs Administration	12,924	0	10,395	2,529	NA	NA
Department of the Treasury, total	58,646	24	48,165	10,457	NA	NA
Bureau of Engraving & Printing	1,641	24	1,561	56	NA	NA
Internal Revenue Service	48,670	0	45,094	3,576	NA	NA
Office of Thrift Supervision	574	0	574	0	NA	NA
United States Customs Service	6,130	0	380	5,750	NA	NA
United States Mint	1,075	0	0	1,075	NA	NA
United States Secret Service[14]	556	0	556	0	NA	NA
Department of Veterans Affairs	276,000	13,454	240,137	22,409	NA	NA
Other agencies:						
Appalachian Regional Commission	900	0	900	0	NA	NA
Environmental Protection Agency	504,000	52,800	362,000	89,200	NA	NA
Federal Communications Commission	3,378	0	3,378	0	NA	NA
Federal Trade Commission	505	0	505	0	NA	NA
Internat'l Dvlpmt Cooperation Agcy, total	169,000	4,000	152,000	13,000	NA	NA
Agency for International Development[15]	169,000	4,000	152,000	13,000	NA	NA
Library of Congress	9,914	502	1,557	7,855	NA	NA
National Aeronautics & Space Administration	8,993,600	1,959,318	2,094,511	4,939,771	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,257,453	2,067,880	189,573	0	NA	NA
Nuclear Regulatory Commission	57,041	0	57,041	0	NA	NA
Smithsonian Institution	129,000	129,000	0	0	NA	NA
Social Security Administration[16]	38,300	0	38,300	0	NA	NA
Tennessee Valley Authority	62,668	850	7,580	54,238	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-6. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Arms Control & Disarmament Agency	1,200	0	1,200	0	NA	NA
United States Information Agency	136	0	136	0	NA	NA
United States International Trade Commission	5,794	0	5,794	0	NA	NA

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency).

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Total, all agencies	69,838,409	15,204,716	15,013,891	39,619,802	NA	NA
Departments						
Department of Agriculture, total	1,376,034	593,530	693,376	89,128	NA	NA
Agricultural Marketing Service	4,773	0	4,161	612	NA	NA
Agricultural Research Service[1]	696,842	369,326	264,800	62,716	NA	NA
Animal & Plant Health Inspection Service	18,274	0	0	18,274	NA	NA
Cooperative State Research, Education, & Extension Service[2]	406,442	186,844	219,598	0	NA	NA
Economic Research Service	57,310	5,431	51,879	0	NA	NA
Food Safety Inspection Service	3,200	0	3,200	0	NA	NA
Foreign Agricultural Service[3]	1,422	922	500	0	NA	NA
Forest Service	179,800	29,700	144,800	5,300	NA	NA
Grain Inspection Packers & Stockyards Admin[4]	2,783	0	557	2,226	NA	NA
National Agricultural Statistics Service	3,972	1,307	2,665	0	NA	NA
Rural Business-Cooperative Service[5]	1,216	0	1,216	0	NA	NA
Department of Commerce, total	1,035,859	40,744	812,801	182,314	NA	NA
Bureau of the Census	4,886	1,010	2,240	1,636	NA	NA
Economic Development Administration	550	0	550	0	NA	NA
National Institute of Standards & Technology	486,893	39,734	304,606	142,553	NA	NA
National Oceanic & Atmospheric Administration	524,698	0	491,748	32,950	NA	NA
Nat'l Telecommunications & Information Admin	18,804	0	13,629	5,175	NA	NA
Office of the Secretary	28	0	28	0	NA	NA
Department of Defense, total	34,030,436	1,116,650	2,791,120	30,122,666	NA	NA
Department of the Army, total	4,580,362	203,014	502,166	3,875,182	NA	NA
Department of the Army, Civil Functions[6]	52,915	5,150	34,800	12,965	NA	NA
Department of the Army, Military Functions	4,527,447	197,864	467,366	3,862,217	431,290	3,430,927
Department of the Navy	7,824,517	380,319	492,946	6,951,252	437,377	6,513,875
Department of the Air Force	14,412,910	225,386	598,802	13,588,722	382,561	13,206,161
Defense Agencies, total	6,919,475	307,931	1,197,206	5,414,338	2,563,529	2,850,809
Ballistic Missile Defense Organization	2,579,344	7,522	109,170	2,462,652	670,453	1,792,199
Defense Advanced Research Projects Agency[7]	2,197,009	75,774	797,446	1,323,789	1,231,868	91,921
Defense Information Systems Agency	57,838	0	1,913	55,925	0	55,925
Defense Logistics Agency	55,036	0	8,285	46,751	40,959	5,792
Defense Special Weapons Agency[8]	277,382	0	207,194	70,188	70,188	0
Joint Staff	67,189	0	0	67,189	67,189	0
Special Operations Command	124,287	0	15,017	109,270	45,474	63,796
Washington Headquarters Services[9] [10]	1,561,390	224,635	58,181	1,278,574	437,398	841,176
Operational Test & Evaluation, Director	23,468	0	0	23,468	0	23,468
Test & Evaluation, Deputy Under Secretary of Defense	269,704	0	0	269,704	0	269,704
Department of Education	225,507	5,326	163,866	56,315	NA	NA
Department of Energy	5,636,314	2,095,489	1,580,634	1,960,191	NA	NA
Department of Health & Human Services, total	13,127,405	7,004,485	4,535,880	1,587,040	NA	NA
Administration on Aging	4,426	0	85	4,341	NA	NA
Administration for Children & Families	31,273	0	31,273	0	NA	NA
Agency for Health Care Policy & Research	149,000	0	139,238	9,762	NA	NA
Centers for Disease Control & Prevention	358,547	0	358,547	0	NA	NA
Food & Drug Administration	181,625	0	181,625	0	NA	NA
Health Care Financing Administration	45,000	0	45,000	0	NA	NA
Health Resources & Services Administration	9,350	0	9,350	0	NA	NA
National Institutes of Health[11]	12,318,497	7,004,485	3,761,762	1,552,250	NA	NA
Office of the Secretary, total	10,100	0	9,000	1,100	NA	NA
Office of the Assistant Secretary, Planning & Evaluation	9,000	0	9,000	0	NA	NA
Office of Public Health & Science	1,100	0	0	1,100	NA	NA
Substance Abuse & Mental Health Svcs Admin	19,587	0	0	19,587	NA	NA

See explanatory information, if any, and SOURCE at end of table

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
Department of Housing & Urban Development	39,465	0	14,053	25,412	NA	NA
Department of the Interior, total	595,609	64,843	502,733	28,033	NA	NA
Bureau of Reclamation	7,849	0	5,887	1,962	NA	NA
Geological Survey[12]	538,957	64,343	448,543	26,071	NA	NA
Minerals Management Service	22,891	0	22,891	0	NA	NA
National Park Service[13]	25,912	500	25,412	0	NA	NA
Department of Justice, total	85,150	23,600	17,993	43,557	NA	NA
Bureau of Prisons	4,900	0	2,600	2,300	NA	NA
Drug Enforcement Administration	500	0	60	440	NA	NA
Federal Bureau of Investigation	35,917	0	0	35,917	NA	NA
Immigration & Naturalization Service	400	0	400	0	NA	NA
Office of Justice Programs	43,433	23,600	14,933	4,900	NA	NA
Department of Labor, total	38,044	11,100	10,915	16,029	NA	NA
Bureau of Labor Statistics	12,400	11,100	1,300	0	NA	NA
Employment & Training Administration	16,646	0	1,990	14,656	NA	NA
Occupational Safety & Health Administration	4,055	0	4,055	0	NA	NA
Office of the Secretary	1,874	0	1,096	778	NA	NA
Pension Benefit Guaranty Corporation	650	0	55	595	NA	NA
Pension & Welfare Benefits Administration	2,419	0	2,419	0	NA	NA
Department of State, total	833	0	833	0	NA	NA
Department of Transportation, total	666,106	40,088	407,911	218,107	NA	NA
Coast Guard	19,675	0	4,919	14,756	NA	NA
Federal Aviation Administration	228,703	0	130,980	97,723	NA	NA
Federal Highway Administration	326,913	35,820	189,133	101,960	NA	NA
Federal Railroad Administration	20,788	0	20,138	650	NA	NA
Federal Transit Administration	15,719	0	14,987	732	NA	NA
National Highway Traffic Safety Admin	42,021	0	42,021	0	NA	NA
Office of the Secretary	4,268	4,268	0	0	NA	NA
Research & Special Programs Administration	8,019	0	5,733	2,286	NA	NA
Department of the Treasury, total	52,921	23	41,058	11,840	NA	NA
Bureau of Engraving & Printing	1,896	23	1,784	89	NA	NA
Internal Revenue Service	41,070	0	37,494	3,576	NA	NA
Office of Thrift Supervision	583	0	583	0	NA	NA
United States Customs Service	8,775	0	600	8,175	NA	NA
United States Secret Service[14]	597	0	597	0	NA	NA
Department of Veterans Affairs	240,283	11,713	209,061	19,509	NA	NA
Other agencies:						
Appalachian Regional Commission	900	0	900	0	NA	NA
Consumer Product Safety Commission	206	0	206	0	NA	NA
Environmental Protection Agency	553,900	53,900	403,200	96,800	NA	NA
Federal Communications Commission	3,198	0	3,198	0	NA	NA
Federal Trade Commission	509	0	509	0	NA	NA
Internat'l Dvlpmt Cooperation Agcy, total	225,000	6,000	202,000	17,000	NA	NA
Agency for International Development[15]	225,000	6,000	202,000	17,000	NA	NA
Library of Congress	11,654	511	1,749	9,394	NA	NA
National Aeronautics & Space Administration	9,272,000	1,857,709	2,318,974	5,095,317	NA	NA
National Archives & Records Administration	120	0	120	0	NA	NA
National Science Foundation	2,346,935	2,146,855	200,080	0	NA	NA
Nuclear Regulatory Commission	53,884	0	53,884	0	NA	NA
Smithsonian Institution	132,000	132,000	0	0	NA	NA
Social Security Administration[16]	37,070	0	37,070	0	NA	NA
Tennessee Valley Authority	44,000	150	2,700	41,150	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-7. Preliminary Federal obligations for total research and development, by agency and character of work: fiscal year 1998

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Research		Development		
		Basic	Applied	Total	Advanced technology	Major systems
United States Arms Control & Disarmament Agency	987	0	987	0	NA	NA
United States Information Agency	100	0	100	0	NA	NA
United States International Trade Commission	5,980	0	5,980	0	NA	NA

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] The Department of the Army, Civil functions (Corps of Engineers) development activities are appropriated by the Energy & Water Development Act and therefore cannot be categorized according to the advanced technology and major systems development breakdown.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: NA = Not applicable (data are not collected in this category for this agency).

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

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Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1996

[Dollars in millions]

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	67,662.6	16,596.4	30,361.4	1,137.0	11,944.7	3,447.7	2,886.9	754.5	246.7	287.4
Departments:										
Department of Agriculture, total	1,302.0	899.6	9.5	.0	376.2	.0	10.8	.0	2.2	3.7
Agricultural Marketing Service	4.9	4.4	.0	.0	.4	.0	.0	.0	.0	.0
Agricultural Research Service[2]	675.2	638.5	.0	.0	28.8	.0	3.9	.0	.3	3.6
Animal & Plant Hlth Inspection Svc	18.0	17.6	.0	.0	.4	.0	.0	.0	.0	.0
Cooperative State Research, Education, & Extension Service[3]	362.4	15.8	9.5	.0	330.2	.0	6.1	.0	.9	.0
Economic Research Service	53.0	49.9	.0	.0	3.0	.0	.0	.0	.0	.0
Food Safety Inspection Service	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service[4]	1.3	.9	.0	.0	.4	.0	.0	.0	.0	.0
Forest Service	177.9	163.3	.0	.0	12.8	.0	.8	.0	1.0	.1
Grain Inspection Packers & Stockyards Administration[5]	2.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	3.8	3.7	.0	.0	.1	.0	-	.0	.0	.0
Rural Business-Cooperative Service[6]	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0
Department of Commerce, total	1,067.5	675.1	288.8	.0	84.9	.4	8.1	.0	8.1	2.1
Bureau of the Census	6.3	6.3	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	.4	.0	.0	.0	.1	.0	.0	.0
National Inst of Standards & Tech	516.5	212.6	286.8	.0	11.3	.4	3.3	.0	.0	2.1
Nat'l Oceanic & Atmospheric Admin	528.5	451.5	1.6	.0	70.8	.0	1.6	.0	3.0	.0
National Telecommunications & Information Administration	15.7	4.7	.0	.0	2.8	.0	3.0	.0	5.1	.0
Office of the Secretary	-	-	.0	.0	.0	.0	.0	.0	.0	-
Department of Defense, research[7]	3,995.5	1,327.6	1,414.1	10.7	1,038.0	67.3	98.9	21.3	-	17.7
Department of Defense, development total[8]	30,499.4	6,820.5	22,219.3	71.6	373.5	185.0	268.6	474.8	.0	86.2
Department of Defense, advanced technology development[8]	4,460.4	1,199.2	2,587.7	22.6	196.4	98.7	251.7	67.4	.0	36.6
Department of Defense, major systems development[8]	26,039.0	5,621.3	19,631.5	48.9	177.0	86.3	16.8	407.4	.0	49.6
Department of the Army, research & development (R&D)	4,873.6	2,241.6	2,419.6	9.6	126.1	31.8	13.8	21.7	-	9.3
Department of the Navy, R&D	8,606.4	2,849.6	5,188.3	2.6	374.9	18.3	80.0	66.6	.0	26.1
Department of the Air Force, R&D	13,042.1	1,161.4	11,336.9	18.9	180.5	37.1	18.1	286.8	.0	2.4
Defense Agencies, R&D, total	7,693.3	1,666.4	4,656.0	51.2	729.8	164.9	255.6	103.4	.0	66.1
Ballistic Missile Defense Organization, R&D	2,802.4	451.6	2,110.4	22.4	84.7	54.1	.3	29.3	.0	49.7
Defense Advanced Research Projects Agency, R&D[9]	2,550.4	391.8	1,471.8	5.0	353.6	58.0	230.8	28.4	.0	11.1
Defense Information Systems Agency, R&D	65.0	20.6	30.1	.0	.0	.3	4.7	9.3	.0	.0
Defense Logistics Agency, R&D	34.3	11.7	20.7	.0	1.8	.0	.0	.2	.0	.0
Defense Special Weapons Agency, R&D[10]	245.6	61.8	150.7	5.3	7.2	14.3	3.7	.6	.0	1.8
Joint Staff, R&D	5.5	5.5	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	164.0	52.0	109.5	2.3	.0	.0	.0	.0	.0	.1
Washington Headquarters Services, R&D[11] [12] [13]	1,826.2	671.3	762.8	16.2	282.6	38.2	16.1	35.7	.0	3.4
Operational Test & Evaluation, R&D, Director	21.9	8.8	.0	.0	.0	.2	.0	12.9	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	257.7	220.4	32.7	.0	.0	.0	.0	4.6	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1996

[Dollars in millions]

Page 2 of 4

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Education	173.7	8.8	8.4	.0	111.8	.0	43.2	.0	1.5	.0
Department of Energy	5,344.9	488.8	1,158.3	872.7	601.1	1,933.6	69.3	211.0	8.0	2.2
Dept of Health & Human Svcs, total	11,953.1	2,594.9	537.7	141.8	6,741.1	26.2	1,730.2	18.4	118.5	44.3
Administration on Aging	3.7	.9	.1	.0	.1	.0	2.7	.0	.0	.0
Admin for Children & Families	12.6	.9	.0	.0	9.3	.0	2.2	.0	.2	.0
Agcy for Health Care Policy & Rsch	125.2	33.5	34.4	.0	36.0	.0	21.2	.0	.0	-
Centers for Disease Control & Prevention	296.7	240.8	2.6	.0	39.0	.1	7.4	.0	6.6	.0
Food & Drug Administration	170.8	151.9	.0	.0	10.4	.0	8.5	.0	.0	.1
Health Care Financing Admin	52.7	.1	26.5	.0	5.9	.0	14.6	.0	5.3	.3
Health Resources & Services Admin	11.1	2.5	.0	.0	5.9	.0	2.7	.0	.0	.0
National Institutes of Health[14]	11,251.0	2,159.5	472.3	141.8	6,620.5	26.1	1,663.3	18.4	105.3	44.0
Office of the Secretary, total	12.7	4.3	1.8	.0	4.5	.0	2.1	.0	.0	.0
Office of the Asst Secretary, Planning & Evaluation	9.0	4.0	1.8	.0	1.7	.0	1.5	.0	.0	.0
Off of Public Health & Science	3.7	.3	.0	.0	2.8	.0	.7	.0	.0	.0
Substance Abuse & Mental Health Services Administration	16.7	.7	.0	.0	9.5	.0	5.4	.0	1.1	.0
Department of Housing & Urban Dvlpmt	33.1	20.5	8.5	.0	1.8	.0	2.4	.0	.0	.0
Department of the Interior, total	567.5	499.9	9.6	-	46.2	.1	.5	.0	10.0	1.3
Bureau of Reclamation	6.5	5.5	.0	.0	.7	.0	.3	.0	.0	.0
Geological Survey[15]	518.9	479.4	5.0	.0	26.2	.0	.0	.0	8.3	.0
Minerals Management Service	21.9	5.3	3.5	-	9.9	.1	.2	.0	1.6	1.3
National Park Service[16]	20.2	9.8	1.1	.0	9.3	.0	.1	.0	.0	.0
Department of Justice, total	77.3	38.3	6.1	.0	9.5	.0	8.7	.0	14.8	.0
Bureau of Prisons	5.2	2.3	.0	.0	.0	.0	.0	.0	2.9	.0
Drug Enforcement Administration	1.2	.5	.7	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	33.5	33.5	.0	.0	.0	.0	.0	.0	.0	.0
Immigration & Naturalization Svc	.2	-	.0	.0	.0	.0	.2	.0	.0	.0
Office of Justice Programs	37.2	2.0	5.4	.0	9.5	.0	8.5	.0	11.8	.0
Department of Labor, total	52.4	13.4	12.2	.0	5.9	.0	6.0	.0	15.0	.0
Bureau of Labor Statistics	13.3	8.2	.0	.0	5.1	.0	.0	.0	.0	.0
Employment & Training Admin	26.9	1.8	6.0	.0	.7	.0	3.5	.0	15.0	.0
Occupational Safety & Health Admin	6.6	1.3	5.3	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	2.6	1.0	.1	.0	.1	.0	1.4	.0	-	.0
Pension Benefit Guaranty Corp	.7	.2	.4	.0	.0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	2.3	.9	.3	.0	-	.0	1.1	.0	.0	.0
Department of State, total	.9	.3	.7	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1996

[Dollars in millions]

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Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	552.5	156.0	243.3	0.6	50.0	2.0	35.8	6.0	57.7	1.1
Coast Guard	20.0	14.2	5.3	.0	.5	.0	.0	.0	.0	.0
Federal Aviation Administration	208.3	64.5	119.6	.0	16.0	.0	2.3	6.0	.0	.0
Federal Highway Administration	240.0	38.2	101.0	.6	19.7	2.0	26.4	.0	51.0	1.0
Federal Railroad Administration	26.7	12.9	2.8	.0	.5	.0	3.8	0	6.6	.0
Federal Transit Administration	13.7	3.2	.4	.0	7.3	.0	2.8	.0	.0	.0
Nat'l Highway Traffic Safety Admin	33.2	16.3	10.4	.0	6.0	.0	.5	.0	.0	-
Office of the Secretary	2.8	2.8	.0	.0	.0	.0	0	.0	.0	.0
Research & Special Programs Admin	7.7	3.9	3.8	.0	.0	.0	.0	.0	.0	.0
Department of the Treasury, total	60.0	37.3	8.5	.0	-	.1	.0	14.0	.0	.0
Bureau of Engraving & Printing	1.7	1.5	.0	.0	.0	.1	.0	.0	.0	.0
Internal Revenue Service	51.2	32.2	5.0	.0	-	.0	.0	14.0	.0	.0
Office of Thrift Supervision	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	6.2	2.9	3.3	.0	.0	.0	.0	.0	.0	.0
United States Secret Service[17]	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	256.1	254.4	.0	.0	1.7	.0	.0	.0	.0	.0
Other agencies:										
Appalachian Regional Commission	.9	.1	.1	.0	.7	.0	.0	.0	.0	.0
Consumer Product Safety Commission	-	-	.0	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	464.3	236.8	123.1	.0	75.7	.0	24.8	.0	1.8	2.1
Federal Communications Commission	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
Internat'l Development Cooperation Agency, total	223.0	33.3	9.3	.0	17.9	.0	128.5	.0	.0	34.0
Agency for Internat'l Dvlpmt[18]	223.0	33.3	9.3	.0	17.9	.0	128.5	.0	.0	34.0
Library of Congress	10.6	10.6	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	8,570.1	2,257.5	4,187.6	12.4	664.5	1,090.1	269.7	5.0	3.1	80.2
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,188.3	20.0	106.6	.0	1,739.9	129.9	178.5	1.0	4.8	7.7
Nuclear Regulatory Commission	70.9	14.2	4.1	27.2	3.8	13.0	.7	3.1	.0	4.8
Smithsonian Institution	127.0	127.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration[19]	11.5	1.9	5.1	.0	.7	.0	2.4	.0	1.5	.0
Tennessee Valley Authority	52.6	52.6	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

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Table C-8. Federal obligations for total research and development, by agency and performer: fiscal year 1996

[Dollars in millions]

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Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
US Arms Control & Disarmament Agcy	0.7	0.2	0.5	.0	.0	.0	.0	0	0	0
United States Information Agency	.1	.1	.0	.0	0	.0	.0	0	0	0
US Internat'l Trade Commission	3.2	3.2	.0	.0	.0	.0	.0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

[8] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

[9] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[10] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[11] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[12] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[13] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[14] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[15] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[16] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[17] The United States Secret Service was formerly listed as the Office of Protective Research.

[18] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[19] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY:
- = Amount less than 50 thousand dollars
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1997

[Dollars in millions]

Page 1 of 4

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	69,972.9	17,438.4	31,519.7	1,111.3	12,340.6	3,369.7	2,938.1	732.1	245.2	277.7
Departments:										
Department of Agriculture, total	1,406.8	924.1	11.6	.0	457.6	.0	8.5	.0	1.6	3.5
Agricultural Marketing Service	4.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service[2]	687.1	651.5	.0	.0	30.7	.0	1.5	.0	.3	3.1
Animal & Plant Hlth Inspection Svc	19.1	18.6	.0	.0	.5	.0	.0	.0	.0	.0
Cooperative State Research, Education, & Extension Service[3]	448.8	19.6	11.5	.0	410.6	.0	6.2	.0	.9	.0
Economic Research Service	55.1	53.1	.0	.0	2.0	.0	.0	.0	.0	.0
Food Safety Inspection Service	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service[4]	1.4	.9	.0	.0	.5	.0	.0	.0	.0	.0
Forest Service	179.8	165.1	.1	0	13.1	.0	.8	.0	.3	.4
Grain Inspection Packers & Stockyards Administration[5]	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	3.9	3.7	.0	.0	.2	.0	-	.0	.0	0
Rural Business-Cooperative Service[6]	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0
Department of Commerce, total	1,044.8	714.6	241.2	.5	78.9	.4	4.9	.0	2.7	1.8
Bureau of the Census	4.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	.4	.0	.0	.0	.1	.0	.0	.0
National Inst of Standards & Tech	481.7	225.7	238.9	.0	12.0	.4	3.0	.0	.0	1.8
Nat'l Oceanic & Atmospheric Admin	543.7	470.0	1.9	.5	66.9	.0	1.7	.0	2.7	.0
National Telecommunications & Information Administration	14.0	14.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	-	-	.0	.0	.0	.0	.0	.0	.0	-
Department of Defense, research[7]	3,897.3	1,407.5	1,348.7	9.1	937.5	59.7	80.7	33.4	-	20.9
Department of Defense, development total[8]	31,020.8	7,262.1	22,447.7	84.7	290.0	165.6	230.2	434.4	17.8	88.3
Department of Defense, advanced technology development[8]	4,411.0	1,263.7	2,598.2	17.5	162.0	76.3	182.3	46.2	-	64.7
Department of Defense, major systems development[8]	26,609.8	5,998.4	19,849.5	67.3	127.9	89.4	47.8	388.2	17.7	23.6
Department of the Army, research & development (R&D)	4,929.3	2,532.4	2,181.0	4.0	150.2	17.8	15.2	18.1	-	10.6
Department of the Navy, R&D	8,184.6	3,110.3	4,552.4	2.3	318.7	18.6	92.0	68.1	.0	22.2
Department of the Air Force, R&D	13,917.4	1,134.9	12,274.9	22.2	139.8	48.8	16.2	279.0	.0	1.6
Defense Agencies, R&D, total	7,623.4	1,669.4	4,764.9	65.3	618.8	140.0	187.4	85.0	17.8	74.8
Ballistic Missile Defense Organization, R&D	3,371.8	644.0	2,492.6	17.4	53.9	54.6	.6	27.9	17.7	63.0
Defense Advanced Research Projects Agency, R&D[9]	2,109.7	322.2	1,233.9	4.2	291.6	46.7	184.5	23.1	.0	3.4
Defense Information Systems Agency, R&D	55.6	14.9	32.2	.0	.0	.6	.0	8.0	.0	.0
Defense Logistics Agency, R&D	40.3	11.5	26.1	.0	2.5	.0	.0	.2	.0	.0
Defense Special Weapons Agency, R&D[10]	192.2	42.0	135.7	4.7	.7	5.2	1.5	.1	.0	2.3
Joint Staff, R&D	35.8	35.8	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	133.7	42.1	89.6	2.0	.0	.0	.0	.0	.0	.1
Washington Headquarters Services, R&D[11 12]	1,684.3	556.9	754.8	37.1	270.0	33.0	.7	25.7	-	6.1
Operational Test & Evaluation, R&D, Director	25.0	12.0	.0	.0	.0	.2	.0	12.8	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	238.4	210.5	23.1	.0	.0	.0	.0	4.8	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1997

[Dollars in millions]

Page 2 of 4

Agency and subdivision	Total	Intramural [1]	Extramural								
			United States and territories								Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Education	190.1	8.8	12.2	.0	122.2	.0	44.9	.0	2.0	.0
Department of Energy	5,687.2	486.7	1,503.5	835.5	599.0	1,987.8	44.5	220.3	7.8	2.1
Dept of Health & Human Svcs, total	12,763.7	2,804.1	573.1	151.1	7,182.3	27.9	1,835.2	20.3	122.5	47.2
Administration on Aging	4.4	.4	.0	.0	.4	.0	3.6	.0	.0	.0
Admin for Children & Families	21.2	.7	.0	.0	16.4	.0	3.9	.0	.2	.0
Agcy for Health Care Policy & Rsch	143.6	46.9	36.7	.0	37.7	.0	22.2	.0	.0	.0
Centers for Disease Control & Prevention	345.7	287.1	4.4	.0	39.0	.1	7.4	.0	7.6	.0
Food & Drug Administration	170.3	151.3	.0	.0	10.4	.0	8.5	.0	.0	.1
Health Care Financing Admin	44.0	.1	27.7	.0	5.5	.0	9.4	.0	1.1	.3
Health Resources & Services Admin	11.3	2.5	.0	.0	6.1	.0	2.7	.0	.0	.0
National Institutes of Health[13]	11,983.3	2,300.8	502.6	151.1	7,051.7	27.8	1,770.1	20.3	112.1	46.8
Office of the Secretary, total	20.4	13.4	1.7	.0	4.2	.0	.9	.0	.2	.0
Office of the Asst Secretary, Planning & Evaluation	18.5	13.2	1.7	.0	2.5	.0	.9	.0	.2	.0
Off of Public Health & Science	1.9	.2	.0	.0	1.7	.0	-	.0	.0	.0
Substance Abuse & Mental Health Services Administration	19.4	.8	.0	.0	11.0	.0	6.3	.0	1.3	.0
Department of Housing & Urban Dvlpmt	36.2	20.5	9.2	.0	1.3	.0	5.1	.0	.0	.0
Department of the Interior, total	576.2	504.7	10.2	.0	50.6	.1	.6	.0	9.1	.9
Bureau of Reclamation	7.6	6.5	.0	.0	.8	.0	.3	.0	.0	0
Geological Survey[14]	524.0	482.5	5.4	.0	28.3	.0	.0	.0	7.7	.0
Minerals Management Service	21.3	5.5	3.6	.0	9.7	.1	.2	.0	1.4	.9
National Park Service[15]	23.3	10.2	1.2	.0	11.9	.0	.1	.0	.0	.0
Department of Justice, total	89.5	41.0	1.0	.0	8.5	.0	35.8	.0	3.3	.0
Bureau of Prisons	4.8	2.4	.0	.0	.0	.0	.0	.0	2.4	.0
Drug Enforcement Administration	.5	.1	.4	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	35.9	35.9	.0	.0	.0	.0	.0	.0	.0	.0
Immigration & Naturalization Svc	.4	-	.0	.0	.0	.0	.4	.0	.0	.0
Office of Justice Programs	48.0	2.6	.6	.0	8.5	.0	35.4	.0	.9	.0
Department of Labor, total	40.6	17.8	8.6	.0	.3	.0	3.9	.0	10.1	.0
Bureau of Labor Statistics	12.6	12.6	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	18.8	1.4	4.0	.0	.1	.0	3.2	.0	10.1	.0
Occupational Safety & Health Admin	3.9	1.3	2.6	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	2.3	1.4	.1	.0	.2	.0	.7	.0	-	.0
Pension Benefit Guaranty Corp	.7	.2	.4	.0	0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	2.4	.9	1.5	.0	.0	.0	.0	.0	.0	.0
Department of State, total	.8	.3	.5	.0	.0	-	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1997

[Dollars in millions]

Page 3 of 4

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	651.2	164.3	318.8	0.2	60.1	.0	43.3	5.6	58.0	1.0
Coast Guard	25.0	17.7	6.8	.0	.4	.0	.0	.0	.0	.0
Federal Aviation Administration	245.6	66.7	156.8	.0	16.5	.0	.0	5.6	.0	.0
Federal Highway Administration	288.9	41.4	130.6	.2	26.0	.0	35.2	.0	54.7	.9
Federal Railroad Administration	19.7	8.9	5.0	.0	1.4	.0	4.1	.0	.1	.1
Federal Transit Administration	19.9	2.5	1.0	.0	9.8	.0	3.4	.0	3.2	.0
Nat'l Highway Traffic Safety Admin	36.5	18.2	11.7	.0	6.0	.0	.6	.0	.0	.0
Office of the Secretary	2.7	2.7	.0	.0	.0	.0	.0	.0	.0	.0
Research & Special Programs Admin	12.9	6.2	6.8	.0	.0	.0	.0	.0	.0	.0
Department of the Treasury, total	58.6	39.0	9.6	.0	.0	0.1	.0	10.0	.0	.0
Bureau of Engraving & Printing	1.6	1.6	.0	.0	.0	.1	.0	.0	.0	.0
Internal Revenue Service	48.7	33.7	5.0	.0	.0	.0	.0	10.0	.0	.0
Office of Thrift Supervision	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	6.1	2.9	3.3	.0	.0	0	.0	.0	.0	.0
United States Mint	1.1	-	1.0	.0	.0	.0	.0	.0	.0	.0
United States Secret Service[16]	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	276.0	274.1	.0	.0	1.9	.0	.0	.0	.0	.0
Other agencies										
Appalachian Regional Commission	.9	.1	.1	.0	.7	.0	.0	.0	.0	.0
Environmental Protection Agency	504.0	257.1	133.6	.0	82.2	.0	26.9	.0	1.9	2.3
Federal Communications Commission	3.4	3.4	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.5	.5	.0	.0	.0	0	.0	.0	.0	.0
Internat'l Development Cooperation Agency, total	169.0	18.7	9.2	.0	11.5	.0	111.0	.0	.0	18.6
Agency for Internat'l Dvlpmt[17]	169.0	18.7	9.2	.0	11.5	.0	111.0	.0	.0	18.6
Library of Congress	9.9	9.9	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	8,993.6	2,248.4	4,723.7	12.4	664.5	987.7	268.6	5.0	3.1	80.2
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,257.5	18.1	118.6	.0	1,785.3	128.4	193.2	1.0	4.9	8.0
Nuclear Regulatory Commission	57.0	13.0	4.2	17.9	4.2	11.9	.7	2.2	.0	2.9
Smithsonian Institution	129.0	129.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration[18]	38.3	1.4	33.9	.0	2.2	0	.2	.0	.6	.0
Tennessee Valley Authority	62.7	62.7	.0	.0	.0	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-9. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1997

[Dollars in millions]

Page 4 of 4

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
US Arms Control & Disarmament Agcy	1.2	0.5	0.7	.0	.0	.0	.0	.0	.0	.0
United States Information Agency	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
US Internat'l Trade Commission	5.8	5.8	.0	.0	.0	.0	.0	.0	.0	.0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

[8] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

[9] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[10] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[11] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[12] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[13] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[14] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[15] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[16] The United States Secret Service was formerly listed as the Office of Protective Research.

[17] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

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NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY:
- = Amount less than 50 thousand dollars
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1998

[Dollars in millions]

Page 1 of 4

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	69,838.4	16,806.5	31,727.2	1,190.7	12,515.0	3,347.2	3,033.1	746.2	194.7	277.8
Departments:										
Department of Agriculture, total	1,376.0	937.0	11.6	.0	417.9	.0	4.5	.0	1.6	3.5
Agricultural Marketing Service	4.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Service[2]	696.8	664.0	.0	.0	27.9	.0	1.5	.0	.3	3.1
Animal & Plant Hlth Inspection Svc	18.3	17.8	.0	.0	.5	.0	.0	.0	.0	.0
Cooperative State Research, Education, & Extension Service[3]	406.4	19.1	11.5	.0	372.8	.0	2.2	.0	.9	.0
Economic Research Service	57.3	54.3	.0	.0	3.0	.0	.0	.0	.0	.0
Food Safety Inspection Service	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0
Foreign Agricultural Service[4]	1.4	.9	.0	.0	.5	.0	.0	.0	.0	.0
Forest Service	179.8	165.1	.1	.0	13.1	.0	.8	.0	.3	.4
Grain Inspection Packers & Stockyards Administration[5]	2.8	2.8	.0	.0	.0	.0	.0	.0	.0	.0
Nat'l Agricultural Statistics Svc	4.0	3.8	.0	.0	.2	.0	-	.0	.0	.0
Rural Business-Cooperative Service[6]	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0
Department of Commerce, total	1,035.9	705.2	249.2	.0	71.4	.4	4.9	.0	2.9	1.9
Bureau of the Census	4.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0
Economic Development Admin	.6	.1	.4	.0	.0	.0	.1	.0	.0	.0
National Inst of Standards & Tech	486.9	222.4	247.3	.0	12.0	.4	3.1	.0	.0	1.8
Nat'l Oceanic & Atmospheric Admin	524.7	459.1	1.5	.0	59.4	.0	1.7	.0	2.9	.0
National Telecommunications & Information Administration	18.8	18.8	.0	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	-	-	.0	.0	.0	.0	.0	.0	.0	-
Department of Defense, research[7]	3,907.8	1,326.8	1,419.8	11.9	949.4	66.3	90.9	27.3	-	15.3
Department of Defense, development total[8]	30,122.7	6,372.0	22,600.0	113.4	239.5	109.6	207.9	391.8	.0	88.4
Department of Defense, advanced technology development[8]	3,827.7	926.8	2,396.8	22.8	120.6	65.3	179.7	53.7	.0	61.9
Department of Defense, major systems development[8]	26,294.9	5,445.2	20,203.2	90.6	118.9	44.2	28.2	338.1	.0	26.5
Department of the Army, research & development (R&D)	4,580.4	1,975.8	2,427.3	14.1	114.3	6.6	18.1	11.1	-	13.1
Department of the Navy, R&D	7,824.5	2,995.5	4,329.2	2.5	330.7	20.0	65.5	58.0	.0	23.1
Department of the Air Force, R&D	14,412.9	994.1	12,978.6	23.7	134.5	7.0	15.1	258.6	.0	1.3
Defense Agencies, R&D, total	6,919.5	1,484.4	4,261.7	85.1	609.4	142.2	200.1	70.5	.0	66.1
Ballistic Missile Defense Organization, R&D	2,579.3	487.6	1,906.7	16.0	42.6	46.1	1.1	23.7	.0	55.5
Defense Advanced Research Projects Agency, R&D[9]	2,197.0	329.4	1,313.2	4.7	286.8	48.9	186.7	24.2	.0	3.1
Defense Information Systems Agency, R&D	57.8	16.1	34.4	.0	.0	.0	.0	7.3	.0	.0
Defense Logistics Agency, R&D	55.0	13.4	28.6	.0	5.4	.0	7.5	.2	.0	.0
Defense Special Weapons Agency, R&D[10]	277.4	53.8	210.5	1.6	.7	8.4	1.5	.0	.0	.8
Joint Staff, R&D	67.2	67.2	.0	.0	.0	.0	.0	.0	.0	.0
Special Operations Command, R&D	124.3	38.6	82.9	1.8	.0	.0	.0	.0	.0	1.0
Washington Headquarters Services, R&D[11] [12]	1,561.4	478.2	685.4	60.9	273.9	38.8	3.3	15.1	.0	5.7
Operational Test & Evaluation, R&D, Director	23.5	7.7	.0	.0	.0	.2	.0	15.6	.0	.0
Test & Evaluation, R&D, Deputy Under Secretary of Defense	269.7	241.3	23.1	.0	.0	.0	.0	5.3	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1998

[Dollars in millions]

Page 2 of 4

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Education	225.5	9.6	20.6	.0	135.0	0	58.1	.0	2.3	0
Department of Energy	5,636.3	636.9	1,251.3	883.3	546.2	1,967.0	49.6	293.3	6.8	1.9
Dept of Health & Human Svcs, total	13,127.4	2,872.3	588.7	155.3	7,393.4	28.7	1,892.8	20.9	127.0	48.4
Administration on Aging	4.4	.4	.0	.0	.0	.0	4.0	.0	.0	.0
Admin for Children & Families	31.3	.8	.0	.0	24.4	0	5.8	0	.3	.0
Agcy for Health Care Policy & Rsch	149.0	51.4	37.1	.0	38.1	0	22.5	.0	0	.0
Centers for Disease Control & Prevention	358.5	298.6	4.4	.0	39.0	1	7.4	.0	9.0	.0
Food & Drug Administration	181.6	152.2	.0	.0	16.3	0	13.2	.0	.0	0
Health Care Financing Admin	45.0	.1	28.3	.0	5.6	0	9.6	.0	1.2	.3
Health Resources & Services Admin	9.4	.5	.0	.0	6.1	.0	2.7	.0	.0	.0
National Institutes of Health[13]	12,318.5	2,363.8	517.0	155.3	7,249.3	28.5	1,820.3	20.9	115.3	48.1
Office of the Secretary, total	10.1	3.8	1.9	.0	3.5	.0	.9	.0	.0	.0
Office of the Asst Secretary, Planning & Evaluation	9.0	3.7	1.9	.0	2.5	.0	.9	.0	.0	.0
Off of Public Health & Science	1.1	.1	.0	.0	1.0	.0	.0	.0	.0	.0
Substance Abuse & Mental Health Services Administration	19.6	.8	.0	.0	11.1	.0	6.4	.0	1.3	.0
Department of Housing & Urban Dvlpmt	39.5	24.8	8.1	.0	1.4	.0	5.1	.0	.0	.0
Department of the Interior, total	595.6	521.9	12.1	.0	51.4	.1	.6	.0	8.6	.9
Bureau of Reclamation	7.8	6.7	.0	.0	.8	.0	.4	.0	.0	.0
Geological Survey[14]	539.0	499.1	7.0	.0	25.8	.0	.0	.0	7.0	.0
Minerals Management Service	22.9	5.8	3.8	.0	10.5	.1	.2	.0	1.6	.9
National Park Service[15]	25.9	10.4	1.2	.0	14.3	.0	.1	.0	.0	.0
Department of Justice, total	85.2	40.5	1.4	.0	20.8	.0	8.1	.0	14.4	.0
Bureau of Prisons	4.9	2.4	.0	.0	.0	.0	.0	.0	2.5	.0
Drug Enforcement Administration	.5	.1	.4	.0	.0	.0	.0	.0	.0	.0
Federal Bureau of Investigation	35.9	35.9	.0	.0	.0	.0	.0	.0	.0	.0
Immigration & Naturalization Svc	.4	-	.0	.0	.0	.0	.4	.0	.0	.0
Office of Justice Programs	43.4	2.0	1.0	.0	20.8	.0	7.7	.0	11.9	.0
Department of Labor, total	38.0	18.1	9.7	.0	.1	.0	4.3	.0	5.8	.0
Bureau of Labor Statistics	12.4	12.4	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	16.6	1.4	5.1	.0	.1	.0	4.3	.0	5.8	.0
Occupational Safety & Health Admin	4.1	1.4	2.7	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	1.9	1.8	.0	.0	-	.0	-	.0	.0	.0
Pension Benefit Guaranty Corp	.7	.2	.4	.0	.0	.0	.0	.0	.0	.0
Pension & Welfare Benefits Admin	2.4	.9	1.5	.0	.0	.0	.0	.0	.0	.0
Department of State, total	.8	.3	.5	.0	.0	-	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table

Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1998

[Dollars in millions]

Page 3 of 4

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	666.1	202.4	337.5	.0	54.9	.0	50.1	5.5	15.3	0.4
Coast Guard	19.7	14.0	5.4	.0	.3	.0	.0	.0	.0	.0
Federal Aviation Administration	228.7	69.6	137.6	.0	16.0	.0	.0	5.5	.0	.0
Federal Highway Administration	326.9	76.1	171.0	.0	24.6	.0	41.4	.0	13.5	.3
Federal Railroad Administration	20.8	9.8	5.3	.0	.6	.0	5.0	.0	.0	-
Federal Transit Administration	15.7	2.6	.9	.0	7.4	.0	3.0	.0	1.8	.0
Nat'l Highway Traffic Safety Admin	42.0	21.4	13.9	.0	6.0	.0	.7	.0	.0	.0
Office of the Secretary	4.3	4.3	.0	.0	.0	.0	.0	.0	.0	.0
Research & Special Programs Admin	8.0	4.7	3.4	.0	.0	.0	.0	.0	.0	.0
Department of the Treasury, total	52.9	39.2	11.2	.0	.0	2.5	.0	.0	.0	.0
Bureau of Engraving & Printing	1.9	1.8	.0	.0	.0	.1	.0	.0	.0	.0
Internal Revenue Service	41.1	33.7	5.0	.0	.0	2.4	.0	.0	.0	.0
Office of Thrift Supervision	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0
United States Customs Service	8.8	2.9	5.9	.0	.0	.0	.0	.0	.0	.0
United States Secret Service[16]	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	240.3	238.7	.0	.0	1.6	.0	.0	.0	.0	.0
Other agencies:										
Appalachian Regional Commission	.9	.1	.1	.0	.7	.0	.0	.0	.0	.0
Consumer Product Safety Commission	.2	-	.2	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agency	553.9	282.5	146.8	.0	90.4	.0	29.6	.0	2.1	2.5
Federal Communications Commission	3.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
Internat'l Development Cooperation Agency, total	225.0	25.6	11.7	.0	15.7	.0	148.0	.0	.0	24.0
Agency for Internat'l Dvlpmt[17]	225.0	25.6	11.7	.0	15.7	.0	148.0	.0	.0	24.0
Library of Congress	11.7	11.7	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics & Space Admin	9,272.0	2,318.0	4,877.4	12.4	664.5	1,034.5	276.9	5.0	3.1	80.2
National Archives & Records Admin	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
National Science Foundation	2,346.9	17.9	131.5	.0	1,855.0	128.3	200.8	1.0	4.3	8.2
Nuclear Regulatory Commission	53.9	13.5	8.1	14.4	3.5	10.0	.7	1.4	.0	2.3
Smithsonian Institution	132.0	132.0	.0	.0	.0	.0	.0	.0	.0	.0
Social Security Administration[18]	37.1	5.1	29.2	.0	2.3	.0	.1	.0	.5	.0
Tennessee Valley Authority	44.0	44.0	.0	.0	.0	.0	.0	.0	.0	.0

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Table C-10. Preliminary Federal obligations for total research and development, by agency and performer: fiscal year 1998

[Dollars in millions]

Page 4 of 4

Agency and subdivision	Total	Intramural [1]	Extramural							
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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
US Arms Control & Disarmament Agcy	1.0	0.4	0.6	.0	.0	.0	0	0	0	0
United States Information Agency	.1	.1	.0	.0	.0	.0	0	0	0	0
US Internat'l Trade Commission	6.0	6.0	0	0	.0	.0	0	0	0	.0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

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FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-11. Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Research and development				R&D plant			
	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	5,339,127	1,136,954	3,447,660	754,513	607,702	43,868	497,753	66,081
Department of Commerce, total	352	0	352	0	0	0	0	0
National Inst of Standards & Tech	352	0	352	0	0	0	0	0
Department of Defense, total	830,578	82,264	252,251	496,063	0	0	0	0
Department of the Army	63,159	9,632	31,842	21,685	0	0	0	0
Department of the Navy	87,464	2,550	18,305	66,609	0	0	0	0
Department of the Air Force	342,809	18,919	37,063	286,827	0	0	0	0
Defense Agencies, total	319,405	51,163	164,866	103,376	0	0	0	0
Ballistic Missile Defense Organization	105,706	22,373	54,071	29,262	0	0	0	0
Defense Advanced Research Projects Agency[1]	91,327	4,975	57,998	28,354	0	0	0	0
Defense Information Systems Agency	9,550	0	289	9,261	0	0	0	0
Defense Logistics Agency	200	0	0	200	0	0	0	0
Defense Special Weapons Agency[2]	20,290	5,339	14,346	605	0	0	0	0
Special Operations Command	2,318	2,318	0	0	0	0	0	0
Washington Headquarters Services[3][4][5]	90,014	16,158	38,162	35,694	0	0	0	0
Operational Test & Evaluation, Director	13,095	0	175	12,920	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	4,646	0	0	4,646	0	0	0	0
Department of Energy	3,017,261	872,665	1,933,619	210,977	592,945	42,368	484,496	66,081
Dept of Health & Human Svcs, total	186,376	141,813	26,207	18,356	1,500	1,500	0	0
Centers for Disease Control & Prevention	138	0	138	0	0	0	0	0
National Institutes of Health[6]	18[illegible]38	141,813	26,069	18,356	1,500	1,500	0	0
Department of the Interior, total	147	20	127	0	0	0	0	0
Minerals Management Service	147	20	127	0	0	0	0	0
Department of Transportation, total	8,574	616	2,000	5,958	0	0	0	0
Federal Aviation Administration	5,958	0	0	5,958	0	0	0	0
Federal Highway Administration	2,616	616	2,000	0	0	0	0	0
Department of the Treasury, total	14,125	0	125	14,000	0	0	0	0
Bureau of Engraving & Printing	125	0	125	0	0	0	0	0
Internal Revenue Service	14,000	0	0	14,000	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,107,405	12,364	1,090,058	4,983	0	0	0	0
National Science Foundation	130,927	0	129,878	1,049	13,257	0	13,257	0
Nuclear Regulatory Commission	43,382	27,212	13,043	3,127	0	0	0	0

[1] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[2] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[3] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[4] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[5] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[6] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-12. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1997

[Dollars in thousands]

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Agency and subdivision	Research and development				R&D plant			
	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	5,213,088	1,111,325	3,369,708	732,055	676,820	54,877	564,032	57,911
Department of Commerce, total	862	495	367	0	0	0	0	0
National Inst of Standards & Tech	367	0	367	0	0	0	0	0
Nat'l Oceanic & Atmospheric Admin	495	495	0	0	0	0	0	0
Department of Defense, total	786,926	93,827	225,310	467,789	0	0	0	0
Department of the Army	39,830	4,017	17,751	18,062	0	0	0	0
Department of the Navy	88,957	2,253	18,628	68,076	0	0	0	0
Department of the Air Force	350,078	22,215	48,821	279,042	0	0	0	0
Defense Agencies, total	290,321	65,342	139,959	85,020	0	0	0	0
Ballistic Missile Defense Organization	99,865	17,407	54,564	27,894	0	0	0	0
Defense Advanced Research Projects Agency[1]	73,951	4,173	46,662	23,116	0	0	0	0
Defense Information Systems Agency	8,621	0	592	8,029	0	0	0	0
Defense Logistics Agency	200	0	0	200	0	0	0	0
Defense Special Weapons Agency[2]	9,979	4,744	5,175	60	0	0	0	0
Special Operations Command	1,950	1,950	0	0	0	0	0	0
Washington Headquarters Services[3] [4]	95,755	37,068	32,966	25,721	0	0	0	0
Operational Test & Evaluation, Director	12,969	0	151	12,818	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	4,771	0	0	4,771	0	0	0	0
Department of Energy	3,043,638	835,506	1,987,844	220,288	663,360	54,877	550,572	57,911
Dept of Health & Human Svcs, total	199,302	151,090	27,915	20,297	0	0	0	0
Centers for Disease Control & Prevention	138	0	138	0	0	0	0	0
National Institutes of Health[5]	199,164	151,090	27,777	20,297	0	0	0	0
Department of the Interior, total	100	0	100	0	0	0	0	0
Minerals Management Service	100	0	100	0	0	0	0	0
Department of State, total	15	0	15	0	0	0	0	0
Department of Transportation, total	5,778	188	0	5,590	0	0	0	0
Federal Aviation Administration	5,590	0	0	5,590	0	0	0	0
Federal Highway Administration	188	188	0	0	0	0	0	0
Department of the Treasury, total	10,085	0	85	10,000	0	0	0	0
Bureau of Engraving & Printing	85	0	85	0	0	0	0	0
Internal Revenue Service	10,000	0	0	10,000	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,005,056	12,364	987,709	4,983	0	0	0	0
National Science Foundation	129,399	0	128,444	955	13,460	0	13,460	0
Nuclear Regulatory Commission	31,927	17,855	11,919	2,153	0	0	0	0

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[1] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[2] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[3] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[4] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[5] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-13. Preliminary Federal obligations for research and development and for R&D plant to federally funded research and development centers, by agency: fiscal year 1998

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Research and development				R&D plant			
	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts	Total	Admin by industrial firms	Admin by univs & colleges	Admin by other nonprofit insts
Total, all agencies	5,284,123	1,190,695	3,347,246	746,182	745,338	53,518	671,256	20,564
Department of Commerce, total	367	0	367	0	0	0	0	0
National Inst of Standards & Tech	367	0	367	0	0	0	0	0
Department of Defense, total	720,344	125,348	175,847	419,149	0	0	0	0
Department of the Army	31,702	14,051	6,560	11,091	0	0	0	0
Department of the Navy	80,494	2,474	19,995	58,025	0	0	0	0
Department of the Air Force	289,314	23,737	6,972	258,605	0	0	0	0
Defense Agencies, total	297,768	85,086	142,170	70,512	0	0	0	0
Ballistic Missile Defense Organization	85,843	16,041	46,097	23,705	0	0	0	0
Defense Advanced Research Projects Agency[1]	77,700	4,652	48,872	24,176	0	0	0	0
Defense Information Systems Agency	7,329	0	0	7,329	0	0	0	0
Defense Logistics Agency	200	0	0	200	0	0	0	0
Defense Special Weapons Agency[2]	10,077	1,641	8,436	0	0	0	0	0
Special Operations Command	1,815	1,815	0	0	0	0	0	0
Washington Headquarters Services[3,4]	114,804	60,937	38,765	15,102	0	0	0	0
Operational Test & Evaluation, Director	15,747	0	150	15,597	0	0	0	0
Test & Evaluation, Deputy Under Secretary of Defense	5,319	0	0	5,319	0	0	0	0
Department of Energy	3,143,639	883,339	1,966,981	293,319	722,611	53,518	648,529	20,564
Dept of Health & Human Svcs, total	204,818	155,269	28,685	20,864	0	0	0	0
Centers for Disease Control & Prevention	138	0	138	0	0	0	0	0
National Institutes of Health[5]	204,680	155,269	28,547	20,864	0	0	0	0
Department of the Interior, total	100	0	100	0	0	0	0	0
Minerals Management Service	100	0	100	0	0	0	0	0
Department of State, total	15	0	15	0	0	0	0	0
Department of Transportation, total	5,500	0	0	5,500	0	0	0	0
Federal Aviation Administration	5,500	0	0	5,500	0	0	0	0
Department of the Treasury, total	2,496	0	2,496	0	0	0	0	0
Bureau of Engraving & Printing	96	0	96	0	0	0	0	0
Internal Revenue Service	2,400	0	2,400	0	0	0	0	0
Other agencies:								
National Aeronautics & Space Admin	1,051,807	12,364	1,034,460	4,983	0	0	0	0
National Science Foundation	129,300	0	128,333	967	22,727	0	22,727	0
Nuclear Regulatory Commission	25,737	14,375	9,962	1,400	0	0	0	0

[1] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[2] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[3] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[4] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[5] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-14. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Founda-tion	Other
Total, all FFRDCs	5,339,127	352	830,578	3,017,261	186,376	1,107,405	130,927	66,228
FFRDCs administered by industrial firms	1,136,954	0	82,264	872,665	141,813	12,364	0	27,848
Idaho National Engineering Lab	63,720	0	3,239	48,537	0	1,244	0	10,700
NCI Frederick Cancer Rsch & Dvlpmt Ctr	141,391	0	38	0	141,353	0	0	0
Oak Ridge National Laboratory	246,619	0	4,795	231,149	460	2,032	0	8,183
Sandia National Laboratories	650,935	0	73,882	559,000	0	9,088	0	8,965
Savannah River Technology Center	34,289	0	310	33,979	0	0	0	0
FFRDCs administered by universities & colleges[1]	3,447,660	352	252,251	1,933,619	26,207	1,090,058	129,878	15,295
Ames Laboratory	23,447	4	87	23,356	0	0	0	0
Argonne National Laboratory	219,307	144	3,780	209,952	0	220	0	5,211
Brookhaven National Laboratory	212,504	89	980	201,199	3,915	585	1,074	4,662
Ernest Orlando Lawrence Berkeley National Laboratory	178,899	0	1,940	162,986	12,975	895	103	0
Fermi National Accelerator Lab	174,650	0	0	174,650	0	0	0	0
Jet Propulsion Laboratory	1,099,313	0	26,205	0	0	1,073,108	0	0
Lawrence Livermore National Lab	489,380	100	42,007	442,299	3,158	1,139	0	677
Lincoln Laboratory	132,126	0	131,367	0	0	632	0	127
Los Alamos National Laboratory	520,756	15	35,214	474,927	5,589	428	90	4,493
National Astronomy & Ionosphere Ctr	8,271	0	0	0	0	0	8,271	0
National Center for Atmospheric Rsch	72,523	0	100	0	0	13,051	59,372	0
National Optical Astronomy Observatories[2]	30,934	0	0	0	0	0	30,934	0
National Radio Astronomy Observatory	29,776	0	0	0	0	0	29,776	0
Oak Ridge Institute for Science & Ed	12,451	0	2,466	9,140	570	0	150	125
Princeton Plasma Physics Laboratory	59,366	0	162	59,096	0	0	108	0
Software Engineering Institute	7,943	0	7,943	0	0	0	0	0
Stanford Linear Accelerator Center	117,124	0	0	117,124	0	0	0	0
Thomas Jefferson National Accelerator Facility[3]	58,890	0	0	58,890	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

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Table C-14. Federal obligations for research and development to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Founda-tion	Other
FFRDCs administered by nonprofit institutions[4]	754,513	0	496.063	210.977	18.356	4.983	1,049	23,085
Aerospace Federally Funded Research & Development Center	154,361	0	152,257	0	0	1.849	255	0
Arroyo Center[5]	327	0	327	0	0	0	0	0
C3I Federally Funded Research & Development Center[6]	198,200	0	198.076	0	0	12	112	0
Center for Advanced Aviation System Development[6]	11,215	0	5,257	0	0	0	0	5.958
Center for Naval Analyses	39.601	0	39.510	0	0	0	91	0
Center for Nuclear Waste Regulatory Analyses	383	0	383	0	0	0	0	0
Institute for Defense Analyses Studies & Analyses FFRDC	49,180	0	49.128	0	0	0	52	0
Logistics Management Institute[7]	6.850	0	3,813	0	0	3.037	0	0
National Defense Research Institute[5]	14,853	0	3,606	0	11.162	85	0	0
National Renewable Energy Laboratory[8]	104.851	0	0	104.851	0	0	0	0
Pacific Northwest National Laboratory	121,624	0	4,638	106.126	7,194	0	539	3.127
Project Air Force[5]	24.000	0	24.000	0	0	0	0	0
Tax Systems Modernization Institute	14,000	0	0	0	0	0	0	14.000

[1] Includes university consortia.

[2] Since February 1984 this center has included three former FFRDCs: Cerro Tololo Inter-American Observatory, Kitt Peak National Observatory and the National Solar Observatory (formerly Sacramento Peak Observatory).

[3] In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.

[4] That is, other than universities and colleges.

[5] The following portions of the RAND Corp. are FFRDCs: National Defense Research Institute (formerly Defense/Office of the Joint Chiefs of Staff), Project Air Force, the Arroyo Center, and the Critical Technologies Institute. All other agency support to RAND is reported under "other nonprofit institutions excluding FFRDCs."

[6] Only the C3I Federally Funded Research & Development Center and the Center for Advanced Aviation System Development parts of the MITRE Corp. are FFRDCs. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDCs."

[7] Logistics Management Institute moved from Bethesda, MD, to McLean, VA, in May 1994.

[8] In September 1991 the name was changed from Solar Energy Research Institute.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX as an FFRDC in November 1993.

The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs: the Energy Technology Engineering Center in November 1995, and the Inhalation Toxicology Research Institute in May 1996.

Critical Technologies Institute (CTI), as established in 1992, supports sciences and technology policy. The National Science Foundation has determined that CTI's activities are classified as non-investment and do not fit within the definitions of basic or applied research or development.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-15. Federal obligations for R&D plant to federally funded research and development centers (FFRDCs), by individual FFRDC and agency: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Federally funded research and development centers	Total	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	National Aero-nautics & Space Admin	National Science Foundation	Other
Total, all FFRDCs	607,702	0	0	592,945	1,500	0	13,257	0
FFRDCs administered by industrial firms	43,868	0	0	42,368	1,500	0	0	0
Idaho National Engineering Lab	493	0	0	493	0	0	0	0
NCI Frederick Cancer Rsch & Dvlpmt Ctr	1,500	0	0	0	1,500	0	0	0
Oak Ridge National Laboratory	18,124	0	0	18,124	0	0	0	0
Sandia National Laboratories	23,751	0	0	23,751	0	0	0	0
FFRDCs administered by universities & colleges[1]	497,753	0	0	484,496	0	0	13,257	0
Ames Laboratory	4,322	0	0	4,322	0	0	0	0
Argonne National Laboratory	41,450	0	0	41,450	0	0	0	0
Brookhaven National Laboratory	109,092	0	0	109,092	0	0	0	0
Ernest Orlando Lawrence Berkeley National Laboratory	62,859	0	0	62,859	0	0	0	0
Fermi National Accelerator Lab	87,195	0	0	87,195	0	0	0	0
Lawrence Livermore National Lab	59,808	0	0	59,808	0	0	0	0
Los Alamos National Laboratory	47,351	0	0	47,351	0	0	0	0
National Center for Atmospheric Rsch	13,257	0	0	0	0	0	13,257	0
Oak Ridge Institute for Science & Ed	332	0	0	332	0	0	0	0
Princeton Plasma Physics Laboratory	1,056	0	0	1,056	0	0	0	0
Stanford Linear Accelerator Center	62,156	0	0	62,156	0	0	0	0
Thomas Jefferson National Accelerator Facility[2]	8,875	0	0	8,875	0	0	0	0
FFRDCs administered by nonprofit institutions[3]	66,081	0	0	66,081	0	0	0	0
National Renewable Energy Laboratory[4]	2,408	0	0	2,408	0	0	0	0
Pacific Northwest National Laboratory	63,673	0	0	63,673	0	0	0	0

[1] Includes university consortia.

[2] In May 1996 the name was changed from Continuous Electron Beam Accelerator Facility.

[3] That is, other than universities and colleges.

[4] In September 1991 the name was changed from Solar Energy Research Institute.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

The Department of the Army decertified the Institute for Advanced Technology (University of Texas), Austin, TX as an FFRDC in November 1993.

The Department of Energy decertified Bettis Atomic Power Laboratory, Hanford Engineering Development Laboratory, and Knolls Atomic Power Laboratory as FFRDCs in October/November 1992. The Department of Energy removed from the Master Government List of FFRDCs: the Energy Technology Engineering Center in November 1995, and the Inhalation Toxicology Research Institute in May 1996.

Critical Technologies Institute (CTI), as established in 1992, supports sciences and technology policy. The National Science Foundation has determined that CTI's activities are classified as non-investment and do not fit within the definitions of basic or applied research or development.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-16. Federal obligations for research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	28,265,100	7,528,214	4,291,304	696,232	10,673,692	2,386,030	2,179,536	195,833	187,410	126,849
Departments:										
Department of Agriculture, total	1,221,649	822,670	9,509	0	373,456	0	10,445	0	2,178	3,391
Agricultural Marketing Service	4,226	3,780	0	0	446	0	0	0	0	0
Agricultural Research Service [2]	621,165	587,453	0	0	26,475	0	3,593	0	307	3,337
Cooperative State Research, Education, & Extension Service [3]	362,419	15,797	9,509	0	330,176	0	6,052	0	885	0
Economic Research Service	52,950	49,930	0	0	3,020	0	0	0	0	0
Food Safety Inspection Service	1,645	1,645	0	0	0	0	0	0	0	0
Foreign Agricultural Service [4]	1,290	856	0	0	434	0	0	0	0	0
Forest Service	172,300	157,690	0	0	12,800	0	770	0	986	54
Grain Inspection Packers & Stockyards Administration [5]	507	507	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,796	3,661	0	0	105	0	30	0	0	0
Rural Business-Cooperative Svc [6]	1,351	1,351	0	0	0	0	0	0	0	0
Department of Commerce, total	850,600	608,978	146,641	0	81,028	252	5,993	0	6,583	1,125
Bureau of the Census	2,450	2,450	0	0	0	0	0	0	0	0
Economic Development Admin	591	50	412	0	0	0	129	0	0	0
National Inst of Standards & Tech	354,840	195,494	144,784	0	10,962	252	2,250	0	0	1,098
Nat'l Oceanic & Atmospheric Admin	480,806	406,325	1,445	0	68,459	0	1,614	0	2,963	0
National Telecommunications & Information Administration	11,885	4,658	0	0	1,607	0	2,000	0	3,620	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	3,995,505	1,327,576	1,414,134	10,685	1,037,965	67,269	98,916	21,257	13	17,690
Department of the Army	670,400	377,246	169,388	568	106,353	1,045	10,258	580	13	4,949
Department of the Navy	893,484	384,725	247,701	904	223,330	3,583	25,275	2,213	0	5,753
Department of the Air Force	882,295	390,650	302,858	858	164,325	796	14,951	5,848	0	2,009
Defense Agencies, total	1,549,326	174,955	694,187	8,355	543,957	61,845	48,432	12,616	0	4,979
Ballistic Missile Defense Organization	92,429	14,390	59,359	237	7,104	8,558	290	1,171	0	1,320
Defense Advanced Research Projects Agency [7]	878,768	58,884	459,841	3,652	274,650	26,544	42,787	10,700	0	1,710
Defense Information Systems Agency	1,648	1,648	0	0	0	0	0	0	0	0
Defense Logistics Agency	7,950	7,950	0	0	0	0	0	0	0	0
Defense Special Weapons Agency [8]	214,811	52,600	134,257	4,391	7,157	12,030	2,532	0	0	1,844
Special Operations Command	25,567	14,658	10,909	0	0	0	0	0	0	0
Washington Headquarters Services [9] [10] [11]	328,153	24,825	29,821	75	255,046	14,713	2,823	745	0	105
Department of Education	135,513	6,585	5,000	0	97,385	0	25,221	0	1,322	0
Department of Energy	3,362,153	217,431	209,349	527,229	566,423	1,648,746	57,226	129,284	4,832	1,633
Dept of Health & Human Svcs, total	10,545,882	2,247,220	456,217	123,377	6,032,620	24,270	1,499,801	17,002	107,288	38,087
Administration on Aging	171	171	0	0	0	0	0	0	0	0
Admin for Children & Families	12,567	872	0	0	9,337	0	2,195	0	163	0
Agcy for Hlth Care Policy & Rsch	115,999	24,382	34,411	0	35,995	0	21,204	0	0	7
Centers for Disease Control & Prevention	296,672	240,847	2,597	0	39,045	138	7,448	0	6,597	0
Food & Drug Administration	170,844	151,879	0	0	10,381	0	8,509	0	0	75
Health Care Financing Admin	52,685	50	26,520	0	5,881	0	14,586	0	5,336	312
Health Resources & Services Admin	11,063	2,490	0	0	5,913	0	2,660	0	0	0
National Institutes of Health [12]	9,876,913	1,822,578	390,860	123,377	5,924,352	24,132	1,441,727	17,002	95,192	37,693
Office of the Secretary, total	8,968	3,951	1,829	0	1,716	0	1,472	0	0	0
Office of the Asst Secretary, Planning & Evaluation	8,968	3,951	1,829	0	1,716	0	1,472	0	0	0

See explanatory information, if any, and SOURCE at end of table.

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Table C-16. Federal obligations for research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	11,166	8,749	711	0	818	0	888	0	0	0
Department of the Interior, total	542,074	476,833	7,588	20	45,823	127	497	0	9,936	1,250
Bureau of Reclamation	4,901	3,903	0	0	739	0	259	0	0	0
Geological Survey[13]	495,071	457,914	2,978	0	25,883	0	0	0	8,296	0
Minerals Management Service	21,856	5,259	3,480	20	9,895	127	185	0	1,640	1,250
National Park Service[14]	20,246	9,757	1,130	0	9,306	0	53	0	0	0
Department of Justice, total	32,046	3,930	3,798	0	8,307	0	6,367	0	9,644	0
Bureau of Prisons	3,094	1,850	0	0	0	0	0	0	1,244	0
Drug Enforcement Administration	45	45	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	211	40	0	0	0	0	171	0	0	0
Office of Justice Programs	28,696	1,995	3,798	0	8,307	0	6,196	0	8,400	0
Department of Labor, total	26,672	12,483	5,680	0	5,826	0	2,683	0	0	0
Bureau of Labor Statistics	13,300	8,200	0	0	5,100	0	0	0	0	0
Employment & Training Admin	2,622	1,052	0	0	661	0	909	0	0	0
Occupational Safety & Hlth Admin	6,602	1,298	5,304	0	0	0	0	0	0	0
Office of the Secretary	1,764	1,026	45	0	35	0	658	0	0	0
Pension Benefit Guaranty Corp	53	53	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,331	854	331	0	30	0	1,116	0	0	0
Department of State, total	924	253	671	0	0	0	0	0	0	0
Department of Transportation, total	377,958	111,949	155,875	616	38,835	2,000	26,415	5,958	35,239	1,071
Coast Guard	5,004	3,410	1,094	0	500	0	0	0	0	0
Federal Aviation Administration	130,597	48,133	58,213	0	15,961	0	2,332	5,958	0	0
Federal Highway Administration	173,894	27,052	81,267	616	13,599	2,000	18,075	0	30,239	1,046
Federal Railroad Administration	21,303	10,013	2,076	0	375	0	3,839	0	5,000	0
Federal Transit Administration	5,582	1,420	62	0	2,400	0	1,700	0	0	0
National Highway Traffic Safety Administration	33,163	16,295	10,374	0	6,000	0	469	0	0	25
Office of the Secretary	2,808	2,808	0	0	0	0	0	0	0	0
Research & Special Programs Admin	5,607	2,818	2,789	0	0	0	0	0	0	0
Department of the Treasury, total	50,488	32,242	4,101	0	20	125	0	14,000	0	0
Bureau of Engraving & Printing	1,563	1,438	0	0	0	125	0	0	0	0
Internal Revenue Service	47,454	29,962	3,472	0	20	0	0	14,000	0	0
Office of Thrift Supervision	537	537	0	0	0	0	0	0	0	0
United States Customs Service	480	55	425	0	0	0	0	0	0	0
United States Secret Service[15]	454	250	204	0	0	0	0	0	0	0
Department of Veterans Affairs	235,284	234,493	0	0	791	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

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Table C-16. Federal obligations for research, by agency and performer: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Environmental Protection Agency	380,800	194,221	100,935	0	62,122	0	20,342	0	1,449	1,731
Federal Communications Commission	2,801	2,801	0	0	0	0	0	0	0	0
Federal Trade Commission	505	505	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	205,000	30,900	9,000	0	17,100	0	122,000	0	0	26,000
Agency for Internat'l Dvlpmt[16]	205,000	30,900	9,000	0	17,100	0	122,000	0	0	26,000
Library of Congress	2,165	2,165	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	3,878,032	1,014,358	1,645,695	7,093	560,164	500,320	121,193	4,156	2,642	22,411
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,188,313	19,977	106,594	0	1,739,861	129,878	178,456	1,049	4,792	7,706
Nuclear Regulatory Commission	70,909	14,165	4,112	27,212	3,785	13,043	711	3,127	0	4,754
Smithsonian Institution	127,000	127,000	0	0	0	0	0	0	0	0
Social Security Administration[17]	11,528	1,852	5,139	0	663	0	2,382	0	1,492	0
Tennessee Valley Authority	5,122	5,122	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy	654	199	455	0	0	0	0	0	0	0
United States Information Agency	149	149	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	3,188	3,188	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[12] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The United States Secret Service was formerly listed as the Office of Protective Research.

[16] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[17] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	29,485,152	7,887,864	4,601,649	722,474	11,120,221	2,404,732	2,242,448	211,213	171,702	122,849
Departments:										
Department of Agriculture, total	1,317,657	838,665	11,577	0	454,307	0	8,355	0	1,529	3,224
Agricultural Marketing Service	4,191	4,191	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	625,268	592,849	0	0	27,963	0	1,339	0	303	2,814
Cooperative State Research, Education, & Extension Service[3]	448,824	19,641	11,472	0	410,614	0	6,211	0	886	0
Economic Research Service	55,109	53,109	0	0	2,000	0	0	0	0	0
Food Safety Inspection Service	2,700	2,700	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	1,422	922	0	0	500	0	0	0	0	0
Forest Service	174,500	159,800	105	0	13,070	0	775	0	340	410
Grain Inspection Packers & Stockyards Administration[5]	550	550	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,925	3,735	0	0	160	0	30	0	0	0
Rural Business-Cooperative Svc[6]	1,168	1,168	0	0	0	0	0	0	0	0
Department of Commerce, total	853,934	646,596	123,021	0	76,470	262	3,955	0	2,670	960
Bureau of the Census	3,250	3,250	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	400	0	0	0	100	0	0	0
National Inst of Standards & Tech	343,136	207,591	120,808	0	11,424	262	2,118	0	0	933
Nat'l Oceanic & Atmospheric Admin	496,433	425,167	1,813	0	65,046	0	1,737	0	2,670	0
National Telecommunications & Information Administration	10,537	10,537	0	0	0	0	0	0	0	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	3,897,331	1,407,464	1,348,661	9,081	937,512	59,669	80,667	33,391	10	20,876
Department of the Army	727,243	417,514	178,836	580	110,580	762	10,981	650	10	7,330
Department of the Navy	912,846	388,073	279,193	889	211,345	5,437	17,339	4,070	0	6,500
Department of the Air Force	862,742	420,396	287,847	592	130,147	3,837	13,550	5,235	0	1,138
Defense Agencies, total	1,394,500	181,481	602,785	7,020	485,440	49,633	38,797	23,436	0	5,908
Ballistic Missile Defense Organization	158,645	66,777	63,405	0	6,076	7,267	278	13,742	0	1,100
Defense Advanced Research Projects Agency[7]	764,870	50,977	407,616	3,135	232,303	21,992	37,087	9,269	0	2,491
Defense Information Systems Agency	1,508	1,508	0	0	0	0	0	0	0	0
Defense Logistics Agency	7,053	7,053	0	0	0	0	0	0	0	0
Defense Special Weapons Agency[8]	169,920	35,660	122,337	3,885	711	3,738	1,272	0	0	2,317
Special Operations Command	17,249	9,889	7,360	0	0	0	0	0	0	0
Washington Headquarters Services[9] [10]	275,255	9,617	2,067	0	246,350	16,636	160	425	0	0
Department of Education	147,053	6,520	4,492	0	107,782	0	26,640	0	1,619	0
Department of Energy	3,498,065	220,744	242,384	557,194	568,815	1,727,792	38,681	136,149	4,645	1,661
Dept of Health & Human Svcs, total	11,275,881	2,434,129	487,243	130,986	6,435,897	25,873	1,591,796	18,780	110,615	40,562
Administration on Aging	475	85	0	0	390	0	0	0	0	0
Admin for Children & Families	21,164	716	0	0	16,359	0	3,885	0	204	0
Agcy for Hlth Care Policy & Rsch	133,919	37,237	36,739	0	37,706	0	22,237	0	0	0
Centers for Disease Control & Prevention	345,748	287,104	4,400	0	39,045	138	7,448	0	7,613	0
Food & Drug Administration	170,322	151,322	0	0	10,425	0	8,500	0	0	75
Health Care Financing Admin	44,000	58	27,673	0	5,460	0	9,400	0	1,115	294
Health Resources & Services Admin	11,335	2,505	0	0	6,090	0	2,740	0	0	0
National Institutes of Health[11]	10,530,432	1,941,902	416,745	130,986	6,317,922	25,735	1,536,686	18,780	101,483	40,193
Office of the Secretary, total	18,486	13,200	1,686	0	2,500	0	900	0	200	0
Office of the Asst Secretary, Planning & Evaluation	18,486	13,200	1,686	0	2,500	0	900	0	200	0

See explanatory information, if any, and SOURCE at end of table.

Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	12,785	6,812	2,066	0	824	0	3,083	0	0	0
Department of the Interior, total	548,762	479,900	7,983	0	50,238	100	583	0	9,035	923
Bureau of Reclamation	5,731	4,585	0	0	800	0	346	0	0	0
Geological Survey[12]	498,404	459,618	3,230	0	27,893	0	0	0	7,663	0
Minerals Management Service	21,307	5,498	3,573	0	9,657	100	184	0	1,372	923
National Park Service[13]	23,320	10,199	1,180	0	11,888	0	53	0	0	0
Department of Justice, total	34,553	3,690	600	0	6,287	0	22,476	0	1,500	0
Bureau of Prisons	2,500	1,900	0	0	0	0	0	0	600	0
Drug Enforcement Administration	50	50	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	0	0	0	0	360	0	0	0
Office of Justice Programs	31,603	1,700	600	0	6,287	0	22,116	0	900	0
Department of Labor, total	22,065	16,554	4,766	0	127	0	618	0	0	0
Bureau of Labor Statistics	12,600	12,600	0	0	0	0	0	0	0	0
Employment & Training Admin	1,943	563	660	0	117	0	603	0	0	0
Occupational Safety & Hlth Admin	3,895	1,336	2,559	0	0	0	0	0	0	0
Office of the Secretary	1,176	1,126	25	0	10	0	15	0	0	0
Pension Benefit Guaranty Corp	54	54	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,397	875	1,522	0	0	0	0	0	0	0
Department of State, total	833	333	485	0	0	15	0	0	0	0
Department of Transportation, total	445,508	114,689	215,496	188	49,909	0	28,230	5,590	30,408	998
Coast Guard	6,240	4,253	1,587	0	400	0	0	0	0	0
Federal Aviation Administration	163,475	46,455	94,930	0	16,500	0	0	5,590	0	0
Federal Highway Administration	201,437	28,618	97,082	188	23,190	0	21,821	0	29,608	930
Federal Railroad Administration	19,022	8,591	4,735	0	1,419	0	4,109	0	100	68
Federal Transit Administration	5,682	882	0	0	2,400	0	1,700	0	700	0
National Highway Traffic Safety Administration	36,539	18,221	11,718	0	6,000	0	600	0	0	0
Office of the Secretary	2,718	2,718	0	0	0	0	0	0	0	0
Research & Special Programs Admin	10,395	4,951	5,444	0	0	0	0	0	0	0
Department of the Treasury, total	48,189	33,893	4,211	0	0	85	0	10,000	0	0
Bureau of Engraving & Printing	1,585	1,500	0	0	0	85	0	0	0	0
Internal Revenue Service	45,094	31,533	3,561	0	0	0	0	10,000	0	0
Office of Thrift Supervision	574	574	0	0	0	0	0	0	0	0
United States Customs Service	380	50	330	0	0	0	0	0	0	0
United States Secret Service[14]	556	236	320	0	0	0	0	0	0	0
Department of Veterans Affairs	253,591	252,739	0	0	852	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-17. Preliminary Federal obligations for research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Environmental Protection Agency	414,800	211,562	109,947	0	67,668	0	22,159	0	1,578	1,886
Federal Communications Commission	3,378	3,378	0	0	0	0	0	0	0	0
Federal Trade Commission	505	505	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	156,000	17,500	9,000	0	11,020	0	100,000	0	0	18,480
Agency for Internat'l Dvlpmt[15]	156,000	17,500	9,000	0	11,020	0	100,000	0	0	18,480
Library of Congress	2,059	2,059	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,053,829	1,013,456	1,872,199	7,170	560,164	450,573	121,086	4,195	2,622	22,364
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,257,453	18,148	118,571	0	1,785,258	128,444	193,233	955	4,854	7,990
Nuclear Regulatory Commission	57,041	13,044	4,227	17,855	4,222	11,919	696	2,153	0	2,925
Smithsonian Institution	129,000	129,000	0	0	0	0	0	0	0	0
Social Security Administration[16]	38,300	1,379	33,945	0	2,169	0	190	0	617	0
Tennessee Valley Authority	8,430	8,430	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	136	136	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	5,794	5,794	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	Foreign
Total, all agencies	30,218,607	8,017,323	4,760,592	751,277	11,327,547	2,506,005	2,345,586	224,310	163,232	122,735
Departments										
Department of Agriculture, total	1,286,906	851,292	11,580	0	414,895	0	4,386	0	1,529	3,224
Agricultural Marketing Service	4,161	4,161	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	634,126	604,255	0	0	25,415	0	1,339	0	303	2,814
Cooperative State Research, Education, & Extension Service[3]	406,442	19,089	11,475	0	372,750	0	2,242	0	886	0
Economic Research Service	57,310	54,310	0	0	3,000	0	0	0	0	0
Food Safety Inspection Service	3,200	3,200	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	1,422	922	0	0	500	0	0	0	0	0
Forest Service	174,500	159,800	105	0	13,070	0	775	0	340	410
Grain Inspection Packers & Stockyards Administration[5]	557	557	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,972	3,782	0	0	160	0	30	0	0	0
Rural Business-Cooperative Svc[6]	1,216	1,216	0	0	0	0	0	0	0	0
Department of Commerce, total	853,545	649,514	126,840	0	69,033	262	3,986	0	2,920	990
Bureau of the Census	3,250	3,250	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	400	0	0	0	100	0	0	0
National Inst of Standards & Tech	344,340	204,520	125,018	0	11,428	262	2,149	0	0	963
Nat'l Oceanic & Atmospheric Admin	491,748	428,064	1,422	0	57,605	0	1,737	0	2,920	0
National Telecommunications & Information Administration	13,629	13,629	0	0	0	0	0	0	0	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	3,907,770	1,326,790	1,419,828	11,913	949,405	66,280	90,941	27,316	10	15,287
Department of the Army	705,180	414,379	167,603	5,458	98,904	427	14,763	155	10	3,481
Department of the Navy	873,265	390,614	219,175	860	226,895	5,060	19,235	4,277	0	7,149
Department of the Air Force	824,188	355,648	320,344	529	126,488	462	12,284	7,318	0	1,115
Defense Agencies, total	1,505,137	166,149	712,706	5,066	497,118	60,331	44,659	15,566	0	3,542
Ballistic Missile Defense Organization	116,692	27,505	68,091	0	6,450	8,180	356	4,610	0	1,500
Defense Advanced Research Projects Agency[7]	873,220	58,566	494,159	3,637	237,640	24,759	42,547	10,641	0	1,271
Defense Information Systems Agency	1,913	1,913	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,285	8,285	0	0	0	0	0	0	0	0
Defense Special Weapons Agency[8]	207,194	52,016	142,728	1,429	702	8,081	1,467	0	0	771
Special Operations Command	15,017	8,609	6,408	0	0	0	0	0	0	0
Washington Headquarters Services[9] [10]	282,816	9,255	1,320	0	252,326	19,311	289	315	0	0
Department of Education	169,192	7,288	9,238	0	116,665	0	34,440	0	1,561	0
Department of Energy	3,676,123	335,085	232,355	582,679	528,437	1,787,533	39,183	165,646	3,714	1,491
Dept of Health & Human Svcs, total	11,540,365	2,441,834	499,768	135,133	6,621,013	26,569	1,640,525	19,292	114,678	41,553
Administration on Aging	85	85	0	0	0	0	0	0	0	0
Admin for Children & Families	31,273	763	0	0	24,408	0	5,797	0	305	0
Agcy for Hlth Care Policy & Rsch	139,238	41,616	37,096	0	38,073	0	22,453	0	0	0
Centers for Disease Control & Prevention	358,547	298,553	4,400	0	39,045	138	7,448	0	8,963	0
Food & Drug Administration	181,625	152,152	0	0	16,288	0	13,185	0	0	0
Health Care Financing Admin	45,000	50	28,313	0	5,590	0	9,616	0	1,161	270
Health Resources & Services Admin	9,350	520	0	0	6,090	0	2,740	0	0	0
National Institutes of Health[11]	10,766,247	1,944,381	428,073	135,133	6,489,019	26,431	1,578,386	19,292	104,249	41,283
Office of the Secretary, total	9,000	3,714	1,886	0	2,500	0	900	0	0	0
Office of the Asst Secretary, Planning & Evaluation	9,000	3,714	1,886	0	2,500	0	900	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	14,053	8,320	2,205	0	811	0	2,717	0	0	0
Department of the Interior, total	567,576	496,563	9,862	0	50,988	100	615	0	8,530	918
Bureau of Reclamation	5,887	4,710	0	0	800	0	377	0	0	0
Geological Survey[12]	512,886	475,701	4,824	0	25,394	0	0	0	6,967	0
Minerals Management Service	22,891	5,791	3,846	0	10,488	100	185	0	1,563	918
National Park Service[13]	25,912	10,361	1,192	0	14,306	0	53	0	0	0
Department of Justice, total	41,593	3,500	500	0	19,900	0	7,368	0	10,325	0
Bureau of Prisons	2,600	1,900	0	0	0	0	0	0	700	0
Drug Enforcement Administration	60	60	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	0	0	0	0	360	0	0	0
Office of Justice Programs	38,533	1,500	500	0	19,900	0	7,008	0	9,625	0
Department of Labor, total	22,015	16,364	4,869	0	139	0	643	0	0	0
Bureau of Labor Statistics	12,400	12,400	0	0	0	0	0	0	0	0
Employment & Training Admin	1,990	577	677	0	119	0	617	0	0	0
Occupational Safety & Hlth Admin	4,055	1,385	2,670	0	0	0	0	0	0	0
Office of the Secretary	1,096	1,050	0	0	20	0	26	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,419	897	1,522	0	0	0	0	0	0	0
Department of State, total	833	333	485	0	0	15	0	0	0	0
Department of Transportation, total	447,999	141,299	209,678	0	44,310	0	36,046	5,500	10,801	365
Coast Guard	4,919	3,353	1,266	0	300	0	0	0	0	0
Federal Aviation Administration	130,980	48,512	60,968	0	16,000	0	0	5,500	0	0
Federal Highway Administration	224,953	48,832	125,483	0	13,985	0	27,361	0	8,952	340
Federal Railroad Administration	20,138	9,468	5,035	0	625	0	4,985	0	0	25
Federal Transit Administration	14,987	2,138	600	0	7,400	0	3,000	0	1,849	0
National Highway Traffic Safety Administration	42,021	21,400	13,921	0	6,000	0	700	0	0	0
Office of the Secretary	4,268	4,268	0	0	0	0	0	0	0	0
Research & Special Programs Admin	5,733	3,328	2,405	0	0	0	0	0	0	0
Department of the Treasury, total	41,081	34,164	4,421	0	0	2,496	0	0	0	0
Bureau of Engraving & Printing	1,807	1,711	0	0	0	96	0	0	0	0
Internal Revenue Service	37,494	31,533	3,561	0	0	2,400	0	0	0	0
Office of Thrift Supervision	583	583	0	0	0	0	0	0	0	0
United States Customs Service	600	60	540	0	0	0	0	0	0	0
United States Secret Service[14]	597	277	320	0	0	0	0	0	0	0
Department of Veterans Affairs	220,774	220,032	0	0	742	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-18. Preliminary Federal obligations for research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Consumer Product Safety Commission	206	6	200	0	0	0	0	0	0	0
Environmental Protection Agency	457,100	233,137	121,159	0	74,568	0	24,414	0	1,739	2,083
Federal Communications Commission	3,198	3,198	0	0	0	0	0	0	0	0
Federal Trade Commission	509	509	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	208,000	23,570	11,500	0	15,030	0	134,000	0	0	23,900
Agency for Internat'l Dvlpmt[15]	208,000	23,570	11,500	0	15,030	0	134,000	0	0	23,900
Library of Congress	2,260	2,260	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,176,683	1,044,170	1,926,655	7,177	560,164	484,455	124,755	4,189	2,629	22,489
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	2,346,935	17,923	131,469	0	1,855,027	128,333	200,757	967	4,274	8,185
Nuclear Regulatory Commission	53,884	13,536	8,146	14,375	3,470	9,962	745	1,400	0	2,250
Smithsonian Institution	132,000	132,000	0	0	0	0	0	0	0	0
Social Security Administration[16]	37,070	5,055	29,178	0	2,250	0	65	0	522	0
Tennessee Valley Authority	2,850	2,850	0	0	0	0	0	0	0	0
US Arms Control & Disarmament Agcy	987	431	556	0	0	0	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	5,980	5,980	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

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[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-19. Federal obligations for research, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	28,265,100	29,485,152	30,218,607
Life sciences, total	12,099,705	12,805,034	13,008,523
Biological (excluding environmental)	5,242,144	NA	NA
Environmental biology	786,997	NA	NA
Agricultural	617,659	NA	NA
Medical	4,987,295	NA	NA
Life sciences, n.e.c	465,610	NA	NA
Psychology, total	513,008	544,411	544,909
Biological aspects	62,890	NA	NA
Social aspects	80,627	NA	NA
Psychological sciences, n.e.c	369,491	NA	NA
Physical sciences, total	3,964,426	4,277,703	4,100,055
Astronomy	738,794	NA	NA
Chemistry	878,829	NA	NA
Physics	2,016,365	NA	NA
Physical sciences, n.e.c	330,438	NA	NA
Environmental sciences, total	2,997,033	3,010,582	3,129,186
Atmospheric	1,088,673	NA	NA
Geological	777,723	NA	NA
Oceanography	553,819	NA	NA
Environmental sciences, n.e.c	576,818	NA	NA
Mathematics & computer sciences, total	1,554,112	1,675,649	1,959,527
Mathematics	251,261	NA	NA
Computer sciences	1,102,929	NA	NA
Mathematics & computer sciences, n.e.c	199,922	NA	NA
Engineering, total	5,679,612	5,565,275	5,830,409
Aeronautical	1,248,754	NA	NA
Astronautical	525,403	NA	NA
Chemical	213,592	NA	NA
Civil	300,146	NA	NA
Electrical	661,837	NA	NA
Mechanical	300,945	NA	NA
Metallurgy & materials	950,168	NA	NA
Engineering, n.e.c	1,478,767	NA	NA
Social sciences, total	674,183	749,066	786,918
Anthropology	8,509	NA	NA
Economics	182,765	NA	NA
Political science	11,634	NA	NA
Sociology	38,793	NA	NA
Social sciences, n.e.c	432,482	NA	NA
Other sciences, n.e.c	783,021	857,432	859,080

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:

NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	28,265,100	12,099,705	513,008	3,964,426	2,997,033	1,554,112	5,679,612	674,183	783,021
Departments:									
Department of Agriculture, total	1,221,649	920,937	452	91,575	13,162	16,362	62,755	113,087	3,319
Agricultural Marketing Service	4,226	4,226	0	0	0	0	0	0	0
Agricultural Research Service[1]	621,165	541,957	0	61,520	4,656	2,660	10,372	0	0
Cooperative State Research, Education, & Extension Service[2]	362,419	267,982	0	22,745	2,976	0	22,411	46,305	0
Economic Research Service	52,950	0	0	0	0	0	0	52,950	0
Food Safety Inspection Service	1,645	1,645	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	1,290	1,290	0	0	0	0	0	0	0
Forest Service	172,300	103,330	452	7,310	5,530	9,906	29,972	12,481	3,319
Grain Inspection Packers & Stockyards Administration[4]	507	507	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,796	0	0	0	0	3,796	0	0	0
Rural Business-Cooperative Svc[5]	1,351	0	0	0	0	0	0	1,351	0
Department of Commerce, total	850,600	161,141	300	108,656	258,686	77,341	186,455	19,124	38,897
Bureau of the Census	2,450	0	300	0	0	1,697	0	414	39
Economic Development Admin	591	0	0	0	0	0	0	591	0
National Inst of Standards & Tech	354,840	43,841	0	87,516	543	50,340	172,384	216	0
Nat'l Oceanic & Atmospheric Admin	480,806	117,300	0	21,140	258,143	18,077	9,413	17,903	38,830
National Telecommunications & Information Administration	11,885	0	0	0	0	7,227	4,658	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	3,995,505	298,869	76,241	366,236	403,646	616,418	2,093,168	2,387	138,540
Department of the Army	670,400	100,675	12,362	60,989	54,909	81,784	355,664	2,387	1,630
Department of the Navy	893,484	57,124	30,868	54,982	250,212	45,670	431,653	0	22,975
Department of the Air Force	882,295	42,938	22,855	147,024	38,305	82,430	544,250	0	4,493
Defense Agencies, total	1,549,326	98,132	10,156	103,241	60,220	406,534	761,601	0	109,442
Ballistic Missile Defense Organization	92,429	0	0	13,478	887	16,728	61,336	0	0
Defense Advanced Research Projects Agency[6]	878,768	28,047	0	4,579	27,514	360,974	439,489	0	18,165
Defense Information Systems Agency	1,648	0	0	0	0	0	0	0	1,648
Defense Logistics Agency	7,950	0	7,950	0	0	0	0	0	0
Defense Special Weapons Agency[7]	214,811	3,656	0	46,939	6,914	1,145	67,171	0	88,986
Special Operations Command	25,567	779	0	0	0	0	24,145	0	643
Washington Headquarters Services[8] [9] [10]	328,153	65,650	2,206	38,245	24,905	27,687	169,460	0	0
Department of Education	135,513	11,185	3,256	0	0	814	6,511	113,747	0
Department of Energy	3,362,153	244,691	0	1,681,374	430,733	288,685	694,022	0	22,648
Dept of Health & Human Svcs, total	10,545,882	9,172,481	369,176	154,401	29,986	94,634	141,948	134,717	448,539
Administration on Aging	171	0	0	0	0	0	0	171	0
Admin for Children & Families	12,567	0	0	0	0	0	0	12,567	0
Agcy for Hlth Care Policy & Rsch	115,999	43,977	1,024	0	0	10,164	0	22,120	38,714
Centers for Disease Control & Prevention	296,672	296,672	0	0	0	0	0	0	0
Food & Drug Administration	170,844	170,844	0	0	0	0	0	0	0
Health Care Financing Admin	52,685	52,685	0	0	0	0	0	0	0
Health Resources & Services Admin	11,063	11,063	0	0	0	0	0	0	0
National Institutes of Health[11]	9,876,913	8,597,240	368,152	154,401	29,986	84,470	141,948	90,891	409,825
Office of the Secretary, total	8,968	0	0	0	0	0	0	8,968	0
Office of the Asst Secretary, Planning & Evaluation	8,968	0	0	0	0	0	0	8,968	0

See explanatory information, if any, and SOURCE at end of table.

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	11,166	0	0	0	3	79	373	10,208	503
Department of the Interior, total	542,074	133,002	0	41,158	314,300	18,319	21,409	13,855	31
Bureau of Reclamation	4,901	0	0	0	0	0	4,901	0	0
Geological Survey[12]	495,071	130,186	0	39,833	296,078	17,037	11,618	319	0
Minerals Management Service	21,856	0	0	494	15,193	1,085	3,099	1,985	0
National Park Service[13]	20,246	2,816	0	831	3,029	197	1,791	11,551	31
Department of Justice, total	32,046	1,165	1,975	1,000	0	0	211	24,614	3,081
Bureau of Prisons	3,094	0	475	0	0	0	0	2,619	0
Drug Enforcement Administration	45	0	0	0	0	0	0	0	45
Immigration & Naturalization Svc	211	0	0	0	0	0	211	0	0
Office of Justice Programs	28,696	1,165	1,500	1,000	0	0	0	21,995	3,036
Department of Labor, total	26,672	0	0	0	0	0	0	26,672	0
Bureau of Labor Statistics	13,300	0	0	0	0	0	0	13,300	0
Employment & Training Admin	2,622	0	0	0	0	0	0	2,622	0
Occupational Safety & Hlth Admin	6,602	0	0	0	0	0	0	6,602	0
Office of the Secretary	1,764	0	0	0	0	0	0	1,764	0
Pension Benefit Guaranty Corp	53	0	0	0	0	0	0	53	0
Pension & Welfare Benefits Admin	2,331	0	0	0	0	0	0	2,331	0
Department of State, total	924	0	0	0	0	0	0	924	0
Department of Transportation, total	377,958	7,354	26,469	31,619	7,242	18,155	244,836	14,530	27,753
Coast Guard	5,004	0	629	0	630	1,253	2,492	0	0
Federal Aviation Administration	130,597	2,498	22,987	29,058	5,726	8,859	49,531	0	11,938
Federal Highway Administration	173,894	1,939	2,853	2,561	886	2,374	141,641	5,825	15,815
Federal Railroad Administration	21,303	0	0	0	0	330	20,973	0	0
Federal Transit Administration	5,582	0	0	0	0	946	4,208	428	0
National Highway Traffic Safety Administration	33,163	2,917	0	0	0	3,427	21,750	5,069	0
Office of the Secretary	2,808	0	0	0	0	0	0	2,808	0
Research & Special Programs Admin	5,607	0	0	0	0	966	4,241	400	0
Department of the Treasury, total	50,488	152	302	1,891	0	14,150	2	33,991	0
Bureau of Engraving & Printing	1,563	0	0	1,561	0	0	2	0	0
Internal Revenue Service	47,454	0	0	0	0	14,000	0	33,454	0
Office of Thrift Supervision	537	0	0	0	0	0	0	537	0
United States Customs Service	480	0	0	330	0	150	0	0	0
United States Secret Service[14]	454	152	302	0	0	0	0	0	0
Department of Veterans Affairs	235,284	221,534	13,619	0	0	0	131	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Environmental Protection Agency	380,800	105,272	0	0	162,961	0	112,567	0	0
Federal Communications Commission	2,801	0	0	85	0	108	1,509	1,099	0
Federal Trade Commission	505	0	0	0	0	0	0	505	0
Internat'l Development Cooperation Agency, total	205,000	189,800	0	0	0	0	0	13,515	1,685
Agency for Internat'l Dvlpmt[15]	205,000	189,800	0	0	0	0	0	13,515	1,685
Library of Congress	2,165	0	0	0	0	0	0	0	2,165
National Aeronautics & Space Admin	3,878,032	250,060	18,137	970,054	936,223	75,242	1,600,299	406	27,611
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,188,313	331,611	3,081	477,411	433,059	333,805	441,458	101,304	66,584
Nuclear Regulatory Commission	70,909	0	0	0	0	0	70,909	0	0
Smithsonian Institution	127,000	48,579	0	37,445	5,675	0	0	33,666	1,635
Social Security Administration[16]	11,528	0	0	0	0	0	0	11,528	0
Tennessee Valley Authority	5,122	1,872	0	993	1,357	0	900	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-20. Federal obligations for research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	654	0	0	408	0	0	0	216	30
United States Information Agency	149	0	0	0	0	0	149	0	0
US Internat'l Trade Commission	3,188	0	0	0	0	0	0	3,188	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS. Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	29,485,152	12,805,034	544,411	4,277,703	3,010,582	1,675,649	5,565,275	749,066	857,432
Departments:									
Department of Agriculture, total	1,317,657	1,007,839	458	95,738	13,078	14,740	66,165	116,291	3,348
Agricultural Marketing Service	4,191	4,191	0	0	0	0	0	0	0
Agricultural Research Service[1]	625,268	548,869	0	61,540	4,397	525	9,937	0	0
Cooperative State Research, Education, & Extension Service[2]	448,824	345,562	0	26,821	3,079	0	25,893	47,469	0
Economic Research Service	55,109	0	0	0	0	0	0	55,109	0
Food Safety Inspection Service	2,700	2,700	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	1,422	1,422	0	0	0	0	0	0	0
Forest Service	174,500	104,545	458	7,377	5,602	10,290	30,335	12,545	3,348
Grain Inspection Packers & Stockyards Administration[4]	550	550	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,925	0	0	0	0	3,925	0	0	0
Rural Business-Cooperative Svc[5]	1,168	0	0	0	0	0	0	1,168	0
Department of Commerce, total	853,934	163,486	386	109,661	264,009	75,948	179,044	20,257	41,143
Bureau of the Census	3,250	0	386	0	0	2,230	0	580	54
Economic Development Admin	550	0	0	0	0	0	0	550	0
National Inst of Standards & Tech	343,136	41,778	0	87,689	555	48,077	164,831	206	0
Nat'l Oceanic & Atmospheric Admin	496,433	121,708	0	21,972	263,454	19,091	10,226	18,921	41,061
National Telecommunications & Information Administration	10,537	0	0	0	0	6,550	3,987	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	3,897,331	319,661	80,462	380,204	356,156	686,363	1,936,616	826	137,043
Department of the Army	727,243	145,637	14,594	63,121	54,677	88,389	350,967	826	9,032
Department of the Navy	912,846	58,425	30,241	50,651	252,988	44,050	455,206	0	21,285
Department of the Air Force	862,742	45,557	24,430	140,993	26,667	83,307	538,309	0	3,479
Defense Agencies, total	1,394,500	70,042	11,197	125,439	21,824	470,617	592,134	0	103,247
Ballistic Missile Defense Organization	158,645	0	0	27,147	845	24,955	105,698	0	0
Defense Advanced Research Projects Agency[6]	764,870	23,933	0	8,287	607	352,317	367,641	0	12,085
Defense Information Systems Agency	1,508	0	0	0	0	0	0	0	1,508
Defense Logistics Agency	7,053	0	7,053	0	0	0	0	0	0
Defense Special Weapons Agency[7]	169,920	3,042	0	42,580	1,338	1,999	34,430	0	86,531
Special Operations Command	17,249	526	0	0	0	0	16,290	0	433
Washington Headquarters Services[8] [9]	275,255	42,541	4,144	47,425	19,034	91,346	68,075	0	2,690
Department of Education	147,053	10,954	3,536	481	0	1,003	7,180	123,646	253
Department of Energy	3,498,065	238,594	0	1,918,775	398,914	329,805	586,370	0	25,607
Dept of Health & Human Svcs, total	11,275,881	9,771,916	392,699	164,275	31,591	100,143	151,638	162,315	501,304
Administration on Aging	475	0	0	0	0	0	0	475	0
Admin for Children & Families	21,164	0	0	0	0	0	0	21,164	0
Agcy for Hlth Care Policy & Rsch	133,919	46,407	967	0	0	10,635	0	23,204	52,706
Centers for Disease Control & Prevention	345,748	345,748	0	0	0	0	0	0	0
Food & Drug Administration	170,322	170,322	0	0	0	0	0	0	0
Health Care Financing Admin	44,000	44,000	0	0	0	0	0	0	0
Health Resources & Services Admin	11,335	11,335	0	0	0	0	0	0	0
National Institutes of Health[10]	10,530,432	9,154,104	391,732	164,275	31,591	89,508	151,638	98,986	448,598
Office of the Secretary, total	18,486	0	0	0	0	0	0	18,486	0
Office of the Asst Secretary, Planning & Evaluation	18,486	0	0	0	0	0	0	18,486	0

See explanatory information, if any, and SOURCE at end of table.

Table C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c
Dept of Housing & Urban Dvlpmt	12,785	0	0	0	46	179	159	11,437	964
Department of the Interior, total	548,762	133,722	0	41,018	318,041	19,162	22,849	13,939	31
Bureau of Reclamation	5,731	0	0	0	0	0	5,731	0	0
Geological Survey[11]	498,404	130,846	0	40,064	297,958	17,427	11,763	346	0
Minerals Management Service	21,307	0	0	123	15,054	988	3,564	1,578	0
National Park Service[12]	23,320	2,876	0	831	5,029	747	1,791	12,015	31
Department of Justice, total	34,553	1,000	1,075	600	0	0	400	27,653	3,825
Bureau of Prisons	2,500	0	475	0	0	0	0	2,025	0
Drug Enforcement Administration	50	0	0	0	0	0	0	0	50
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	31,603	1,000	600	600	0	0	0	25,628	3,775
Department of Labor, total	22,065	0	0	0	0	0	0	22,065	0
Bureau of Labor Statistics	12,600	0	0	0	0	0	0	12,600	0
Employment & Training Admin	1,943	0	0	0	0	0	0	1,943	0
Occupational Safety & Hlth Admin	3,895	0	0	0	0	0	0	3,895	0
Office of the Secretary	1,176	0	0	0	0	0	0	1,176	0
Pension Benefit Guaranty Corp	54	0	0	0	0	0	0	54	0
Pension & Welfare Benefits Admin	2,397	0	0	0	0	0	0	2,397	0
Department of State, total	833	0	0	0	0	0	0	833	0
Department of Transportation, total	445,508	8,909	29,360	45,523	9,065	15,259	278,379	14,724	44,289
Coast Guard	6,240	0	734	0	746	1,574	3,186	0	0
Federal Aviation Administration	163,475	4,000	24,543	45,155	4,407	2,835	56,515	0	26,020
Federal Highway Administration	201,437	1,616	4,083	132	3,294	3,489	165,637	4,917	18,269
Federal Railroad Administration	19,022	0	0	0	0	1,314	17,708	0	0
Federal Transit Administration	5,682	0	0	0	118	829	3,788	947	0
National Highway Traffic Safety Administration	36,539	3,293	0	0	0	3,654	23,750	5,842	0
Office of the Secretary	2,718	0	0	0	0	0	0	2,718	0
Research & Special Programs Admin	10,395	0	0	236	500	1,564	7,795	300	0
Department of the Treasury, total	48,189	160	396	1,818	0	10,120	27	35,668	0
Bureau of Engraving & Printing	1,585	0	0	1,558	0	0	27	0	0
Internal Revenue Service	45,094	0	0	0	0	10,000	0	35,094	0
Office of Thrift Supervision	574	0	0	0	0	0	0	574	0
United States Customs Service	380	0	0	260	0	120	0	0	0
United States Secret Service[13]	556	160	396	0	0	0	0	0	0
Department of Veterans Affairs	253,591	238,770	14,679	0	0	0	142	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Environmental Protection Agency	414,800	114,681	0	0	177,508	0	122,611	0	0
Federal Communications Commission	3,378	0	0	85	0	112	1,536	1,645	0
Federal Trade Commission	505	0	0	0	0	0	0	505	0
Internat'l Development Cooperation Agency, total	156,000	141,000	0	0	0	0	0	13,000	2,000
Agency for Internat'l Dvlpmt[14]	156,000	141,000	0	0	0	0	0	13,000	2,000
Library of Congress	2,059	0	0	0	0	0	0	0	2,059
National Aeronautics & Space Admin	4,053,829	259,816	19,076	1,003,016	974,249	79,066	1,689,990	378	28,238
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,257,453	340,021	2,284	478,427	459,354	343,749	464,117	104,063	65,438
Nuclear Regulatory Commission	57,041	0	0	0	0	0	57,041	0	0
Smithsonian Institution	129,000	50,082	0	36,535	5,942	0	0	34,701	1,740
Social Security Administration[15]	38,300	0	0	0	0	0	0	38,300	0
Tennessee Valley Authority	8,430	4,363	0	1,049	2,203	0	815	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-21. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	1,200	60	0	378	426	0	60	126	150
United States Information Agency	136	0	0	0	0	0	136	0	0
US Internat'l Trade Commission	5,794	0	0	0	0	0	0	5,794	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[15] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	30,218,607	13,008,523	544,909	4,100,055	3,129,186	1,959,527	5,830,409	786,918	859,080
Departments:									
Department of Agriculture, total	1,286,906	989,904	458	93,010	12,472	14,839	60,790	112,085	3,348
Agricultural Marketing Service	4,161	4,161	0	0	0	0	0	0	0
Agricultural Research Service[1]	634,126	557,473	0	61,601	4,440	577	10,035	0	0
Cooperative State Research, Education, & Extension Service[2]	406,442	318,546	0	24,032	2,430	0	20,420	41,014	0
Economic Research Service	57,310	0	0	0	0	0	0	57,310	0
Food Safety Inspection Service	3,200	3,200	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	1,422	1,422	0	0	0	0	0	0	0
Forest Service	174,500	104,545	458	7,377	5,602	10,290	30,335	12,545	3,348
Grain Inspection Packers & Stockyards Administration[4]	557	557	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	3,972	0	0	0	0	3,972	0	0	0
Rural Business-Cooperative Svc[5]	1,216	0	0	0	0	0	0	1,216	0
Department of Commerce, total	853,545	157,677	386	110,417	268,217	79,234	178,381	19,100	40,133
Bureau of the Census	3,250	0	386	0	0	2,230	0	580	54
Economic Development Admin	550	0	0	0	0	0	0	550	0
National Inst of Standards & Tech	344,340	42,007	0	87,589	553	48,326	165,658	207	0
Nat'l Oceanic & Atmospheric Admin	491,748	115,670	0	22,828	267,664	18,853	8,919	17,763	40,051
National Telecommunications & Information Administration	13,629	0	0	0	0	9,825	3,804	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	3,907,770	262,943	76,154	387,394	345,031	789,699	1,926,895	463	119,191
Department of the Army	705,180	114,064	13,695	54,052	52,718	90,405	376,200	463	3,583
Department of the Navy	873,265	56,246	30,711	55,464	245,087	45,551	417,458	0	22,748
Department of the Air Force	824,188	42,497	21,217	147,205	25,238	85,909	499,519	0	2,603
Defense Agencies, total	1,505,137	50,136	10,531	130,673	21,988	567,834	633,718	0	90,257
Ballistic Missile Defense Organization	116,692	0	0	26,730	1,078	24,945	63,939	0	0
Defense Advanced Research Projects Agency[6]	873,220	7,952	0	9,556	0	486,887	367,023	0	1,802
Defense Information Systems Agency	1,913	0	0	0	0	0	0	0	1,913
Defense Logistics Agency	8,285	0	8,285	0	0	0	0	0	0
Defense Special Weapons Agency[7]	207,194	3,121	0	62,186	1,814	2,199	51,709	0	86,165
Special Operations Command	15,017	458	0	0	0	0	14,182	0	377
Washington Headquarters Services[8] [9]	282,816	38,605	2,246	32,201	19,096	53,803	136,865	0	0
Department of Education	169,192	11,088	3,567	451	0	1,006	7,231	145,604	245
Department of Energy	3,676,123	233,981	0	1,678,731	484,310	476,535	785,737	0	16,829
Dept of Health & Human Svcs, total	11,540,365	10,000,480	401,481	167,953	32,298	102,251	155,034	164,990	515,878
Administration on Aging	85	0	0	0	0	0	0	85	0
Admin for Children & Families	31,273	0	0	0	0	0	0	31,273	0
Agcy for Hlth Care Policy & Rsch	139,238	46,859	976	0	0	10,738	0	23,429	57,236
Centers for Disease Control & Prevention	358,547	358,547	0	0	0	0	0	0	0
Food & Drug Administration	181,625	181,625	0	0	0	0	0	0	0
Health Care Financing Admin	45,000	45,000	0	0	0	0	0	0	0
Health Resources & Services Admin	9,350	9,350	0	0	0	0	0	0	0
National Institutes of Health[10]	10,766,247	9,359,099	400,505	167,953	32,298	91,513	155,034	101,203	458,642
Office of the Secretary, total	9,000	0	0	0	0	0	0	9,000	0
Office of the Asst Secretary, Planning & Evaluation	9,000	0	0	0	0	0	0	9,000	0

See explanatory information, if any, and SOURCE at end of table.

Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	14,053	0	0	0	27	218	149	12,504	1,155
Department of the Interior, total	567,576	141,805	0	42,603	322,400	21,278	23,875	15,584	31
Bureau of Reclamation	5,887	0	0	0	0	0	5,887	0	0
Geological Survey[11]	512,886	138,076	0	41,650	299,961	19,965	12,717	517	0
Minerals Management Service	22,891	0	0	122	17,410	566	3,480	1,313	0
National Park Service[12]	25,912	3,729	0	831	5,029	747	1,791	13,754	31
Department of Justice, total	41,593	3,000	1,475	300	0	0	400	32,983	3,435
Bureau of Prisons	2,600	0	475	0	0	0	0	2,125	0
Drug Enforcement Administration	60	0	0	0	0	0	0	0	60
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	38,533	3,000	1,000	300	0	0	0	30,858	3,375
Department of Labor, total	22,015	0	0	0	0	0	0	22,015	0
Bureau of Labor Statistics	12,400	0	0	0	0	0	0	12,400	0
Employment & Training Admin	1,990	0	0	0	0	0	0	1,990	0
Occupational Safety & Hlth Admin	4,055	0	0	0	0	0	0	4,055	0
Office of the Secretary	1,096	0	0	0	0	0	0	1,096	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	2,419	0	0	0	0	0	0	2,419	0
Department of State, total	833	0	0	0	0	0	0	833	0
Department of Transportation, total	447,999	10,022	25,285	36,526	8,943	18,836	280,023	16,215	52,149
Coast Guard	4,919	0	606	0	608	1,258	2,447	0	0
Federal Aviation Administration	130,980	3,200	19,634	36,124	3,526	2,268	45,212	0	21,016
Federal Highway Administration	224,953	3,040	5,045	166	4,538	4,280	173,109	7,910	26,865
Federal Railroad Administration	20,138	0	0	0	0	1,075	19,063	0	0
Federal Transit Administration	14,987	0	0	0	171	456	12,878	1,482	0
National Highway Traffic Safety Administration	42,021	3,782	0	0	0	4,202	27,314	6,723	0
Office of the Secretary	4,268	0	0	0	0	0	0	0	4,268
Research & Special Programs Admin	5,733	0	0	236	100	5,297	0	100	0
Department of the Treasury, total	41,081	160	437	2,007	0	300	100	38,077	0
Bureau of Engraving & Printing	1,807	0	0	1,707	0	0	100	0	0
Internal Revenue Service	37,494	0	0	0	0	0	0	37,494	0
Office of Thrift Supervision	583	0	0	0	0	0	0	583	0
United States Customs Service	600	0	0	300	0	300	0	0	0
United States Secret Service[13]	597	160	437	0	0	0	0	0	0
Department of Veterans Affairs	220,774	207,871	12,780	0	0	0	123	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Consumer Product Safety Commission	206	0	206	0	0	0	0	0	0
Environmental Protection Agency	457,100	126,375	0	0	195,609	0	135,116	0	0
Federal Communications Commission	3,198	0	0	140	0	116	1,492	1,450	0
Federal Trade Commission	509	0	0	0	0	0	0	509	0
Internat'l Development Cooperation Agency, total	208,000	187,900	0	0	0	0	0	17,000	3,100
Agency for Internat'l Dvlpmt[14]	208,000	187,900	0	0	0	0	0	17,000	3,100
Library of Congress	2,260	0	0	0	0	0	0	0	2,260
National Aeronautics & Space Admin	4,176,683	270,655	19,654	1,033,507	1,003,805	81,463	1,738,115	390	29,094
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	2,346,935	352,250	3,026	508,751	448,493	373,752	482,796	107,541	70,326
Nuclear Regulatory Commission	53,884	0	0	0	0	0	53,884	0	0
Smithsonian Institution	132,000	51,215	0	37,400	6,081	0	0	35,521	1,783
Social Security Administration[15]	37,070	0	0	0	0	0	0	37,070	0
Tennessee Valley Authority	2,850	1,148	0	434	1,150	0	118	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-22. Preliminary Federal obligations for research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	987	49	0	311	350	0	50	104	123
United States Information Agency	100	0	0	0	0	0	100	0	0
US Internat'l Trade Commission	5,980	0	0	0	0	0	0	5,980	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[15] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	513,008	62,890	80,627	369,491	12,099,705	5,242,144	786,997	617,659	4,987,295	465,610
Departments:										
Department of Agriculture, total	452	0	452	0	920,937	119,188	200,077	576,896	24,765	11
Agricultural Marketing Service	0	0	0	0	4,226	0	0	4,226	0	0
Agricultural Research Service[1]	0	0	0	0	541,957	34,605	64,048	432,878	10,415	11
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	267,982	62,983	61,029	134,620	9,350	0
Food Safety Inspection Service	0	0	0	0	1,645	0	0	1,645	0	0
Foreign Agricultural Service[3]	0	0	0	0	1,290	0	0	1,290	0	0
Forest Service	452	0	452	0	103,330	21,600	75,000	1,730	5,000	0
Grain Inspection Packers & Stockyards Administration[4]	0	0	0	0	507	0	0	507	0	0
Department of Commerce, total	300	0	300	0	161,141	58,190	70,621	15,531	16,799	0
Bureau of the Census	300	0	300	0	0	0	0	0	0	0
National Inst of Standards & Tech	0	0	0	0	43,841	29,305	58	343	14,135	0
Nat'l Oceanic & Atmospheric Admin	0	0	0	0	117,300	28,885	70,563	15,188	2,664	0
Department of Defense, total	76,241	33,601	32,276	10,364	298,869	53,862	44,610	50	168,425	31,922
Department of the Army	12,362	611	9,643	2,108	100,675	6,914	2,007	0	90,634	1,120
Department of the Navy	30,868	28,985	0	1,883	57,124	11,300	9,040	0	23,185	13,599
Department of the Air Force	22,855	2,799	14,683	5,373	42,938	13,725	18,069	0	8,508	2,636
Defense Agencies, total	10,156	1,206	7,950	1,000	98,132	21,923	15,494	50	46,098	14,567
Defense Advanced Research Projects Agency[5]	0	0	0	0	28,047	9,148	21	0	18,878	0
Defense Logistics Agency	7,950	0	7,950	0	0	0	0	0	0	0
Defense Special Weapons Agency[6]	0	0	0	0	3,656	3,606	0	50	0	0
Special Operations Command	0	0	0	0	779	0	0	0	0	779
Washington Headquarters Services[7] [8] [9]	2,206	1,206	0	1,000	65,650	9,169	15,473	0	27,220	13,788
Department of Education	3,256	0	1,954	1,302	11,185	0	0	0	5,189	5,996
Department of Energy	0	0	0	0	244,691	187,181	5,000	0	45,232	7,278
Dept of Health & Human Svcs, total	369,176	14,226	6,711	348,239	9,172,481	4,342,818	69,656	0	4,403,395	356,612
Agcy for Hlth Care Policy & Rsch	1,024	0	747	277	43,977	0	0	0	38,304	5,673
Centers for Disease Control & Prevention	0	0	0	0	296,672	0	0	0	296,672	0
Food & Drug Administration	0	0	0	0	170,844	158,683	0	0	0	12,161
Health Care Financing Admin	0	0	0	0	52,685	0	0	0	0	52 685
Health Resources & Services Admin	0	0	0	0	11,063	0	0	0	11,063	0
National Institutes of Health[10]	368,152	14,226	5,964	347,962	8,597,240	4,184,135	69,656	0	4,057,356	286,093
Department of the Interior, total	0	0	0	0	133,002	69,993	62,768	241	0	0
Geological Survey[11]	0	0	0	0	130,186	68,773	61,286	127	0	0
National Park Service[12]	0	0	0	0	2,816	1,220	1,482	114	0	0
Department of Justice, total	1,975	200	1,100	675	1,165	565	0	0	0	600
Bureau of Prisons	475	0	300	175	0	0	0	0	0	0
Office of Justice Programs	1,500	200	800	500	1,165	565	0	0	0	600

See explanatory information, if any, and SOURCE at end of table

Table C-23. Federal obligations for research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of Transportation, total	26,469	629	23,334	2,506	7,354	0	1,353	586	2,498	2,917
Coast Guard	629	629	0	0	0	0	0	0	0	0
Federal Aviation Administration	22,987	0	22,987	0	2,498	0	0	0	2,498	0
Federal Highway Administration	2,853	0	347	2,506	1,939	0	1,353	586	0	0
National Highway Traffic Safety Administration	0	0	0	0	2,917	0	0	0	0	2,917
Department of the Treasury, total	302	0	0	302	152	0	0	0	152	0
United States Secret Service[13]	302	0	0	302	152	0	0	0	152	0
Department of Veterans Affairs	13,619	13,589	30	0	221,534	39,438	0	0	182,096	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	105,272	0	85,305	0	19,967	0
Internat'l Development Cooperation Agency, total	0	0	0	0	189,800	0	123,600	22,000	11,000	33,200
Agency for Internat'l Dvlpmt[14]	0	0	0	0	189,800	0	123,600	22,000	11,000	33,200
National Aeronautics & Space Admin	18,137	71	13,473	4,593	250,060	108,410	9,964	1,428	107,777	22,481
National Science Foundation	3,081	574	997	1,510	331,611	241,583	85,435	0	0	4,593
Smithsonian Institution	0	0	0	0	48,579	20,916	27,663	0	0	0
Tennessee Valley Authority	0	0	0	0	1,672	0	945	927	0	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[7] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[8] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[9] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

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[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	3,964,426	738,794	878,829	2,016,365	330,438	2,997,033	1,088,673	777,723	553,819	576,818
Departments:										
Department of Agriculture, total	91,575	0	86,990	4,585	0	13,162	11,582	1,571	0	9
Agricultural Research Service[1]	61,520	0	58,645	2,875	0	4,656	4,306	341	0	9
Cooperative State Research, Education, & Extension Service[2]	22,745	0	22,745	0	0	2,976	2,976	0	0	0
Forest Service	7,310	0	5,600	1,710	0	5,530	4,300	1,230	0	0
Department of Commerce, total	108,656	587	47,035	60,596	438	258,686	107,209	36,893	104,934	9,650
National Inst of Standards & Tech	87,516	587	35,482	51,009	438	543	0	499	0	44
Nat'l Oceanic & Atmospheric Admin	21,140	0	11,553	9,587	0	258,143	107,209	36,394	104,934	9,606
Department of Defense, total	366,236	2,199	106,414	208,884	48,739	403,646	72,347	52,258	117,100	161,941
Department of the Army	60,989	0	19,871	23,675	17,443	54,909	13,862	4,108	0	36,939
Department of the Navy	54,982	0	28,626	17,316	9,040	250,212	29,172	5,650	107,092	108,298
Department of the Air Force	147,024	1,746	34,326	109,863	1,089	38,305	20,127	12,851	0	5,327
Defense Agencies, total	103,241	453	23,591	58,030	21,167	60,220	9,186	29,649	10,008	11,377
Ballistic Missile Defense Organization	13,478	0	1,491	10,987	1,000	887	887	0	0	0
Defense Advanced Research Projects Agency[3]	4,579	0	2,331	2,248	0	27,514	123	26,847	544	0
Defense Special Weapons Agency[4]	46,939	0	0	28,452	18,487	6,914	1,298	0	0	5,616
Washington Headquarters Services[5] [6] [7]	38,245	453	19,769	16,343	1,680	24,905	6,878	2,802	9,464	5,761
Department of Energy	1,681,374	0	266,988	1,201,667	212,719	430,733	123,264	89,703	11,622	206,144
Dept of Health & Human Svcs, total	154,401	0	137,197	17,204	0	29,986	0	0	0	29,986
National Institutes of Health[8]	154,401	0	137,197	17,204	0	29,986	0	0	0	29,986
Dept of Housing & Urban Dvlpmt	0	0	0	0	0	3	0	0	0	3
Department of the Interior, total	41,158	0	34,025	7,133	0	314,300	2,464	296,270	15,078	488
Geological Survey[9]	39,833	0	33,194	6,639	0	296,078	724	295,354	0	0
Minerals Management Service	494	0	0	494	0	15,193	275	24	14,800	94
National Park Service[10]	831	0	831	0	0	3,029	1,465	892	278	394
Department of Justice, total	1,000	0	500	0	500	0	0	0	0	0
Office of Justice Programs	1,000	0	500	0	500	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-24. Federal obligations for research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Department of Transportation, total	31,619	0	0	31,619	0	7,242	5,726	0	630	886
Coast Guard	0	0	0	0	0	630	0	0	630	0
Federal Aviation Administration	29,058	0	0	29,058	0	5,726	5,726	0	0	0
Federal Highway Administration	2,561	0	0	2,561	0	886	0	0	0	886
Department of the Treasury, total	1,891	0	562	132	1,197	0	0	0	0	0
Bureau of Engraving & Printing	1,561	0	232	132	1,197	0	0	0	0	0
United States Customs Service	330	0	330	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	162,961	75,992	10,603	0	76,366
Federal Communications Commission	85	0	0	0	85	0	0	0	0	0
National Aeronautics & Space Admin	970,054	570,450	49,588	311,640	38,376	936,223	546,390	197,145	122,850	69,838
National Archives & Records Admin	120	0	80	40	0	0	0	0	0	0
National Science Foundation	477,411	130,142	147,710	171,283	28,276	433,059	142,264	88,055	181,233	21,507
Smithsonian Institution	37,445	35,416	627	1,402	0	5,675	78	5,225	372	0
Tennessee Valley Authority	993	0	993	0	0	1,357	1,357	0	0	0
US Arms Control & Disarmament Agcy	408	0	120	180	108	0	0	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, n.e.c.
Total, all agencies	5,679,612	1,248,754	525,403	213,592	300,146	661,837	300,945	950,168	1,478,767
Departments:									
Department of Agriculture, total	62,755	0	0	8,435	5,376	336	3,238	0	45,370
Agricultural Research Service[1]	10,372	0	0	6,135	1,296	264	658	0	2,019
Cooperative State Research, Education, & Extension Service[2]	22,411	0	0	0	0	0	0	0	22,411
Forest Service	29,972	0	0	2,300	4,080	72	2,580	0	20,940
Department of Commerce, total	186,455	0	0	13,662	11,314	49,179	5,312	67,643	39,345
National Inst of Standards & Tech	172,384	0	0	13,662	11,314	42,639	5,312	67,643	31,814
Nat'l Oceanic & Atmospheric Admin	9,413	0	0	0	0	1,882	0	0	7,531
National Telecommunications & Information Administration	4,658	0	0	0	0	4,658	0	0	0
Department of Defense, total	2,093,168	226,606	80,537	41,301	59,654	511,797	230,997	460,900	481,376
Department of the Army	355,664	16,156	24,612	21,243	32,348	128,880	56,419	29,938	46,068
Department of the Navy	431,653	29,448	0	5,000	0	153,630	53,858	70,780	118,937
Department of the Air Force	544,250	165,213	37,825	6,742	19,929	107,672	79,749	79,802	47,318
Defense Agencies, total	761,601	15,789	18,100	8,316	7,377	121,615	40,971	280,380	269,053
Ballistic Missile Defense Organization	61,336	5,312	18,100	1,822	10	15,957	0	12,504	7,631
Defense Advanced Research Projects Agency[3]	439,489	3,702	0	183	5,679	[illegible]	195	236,885	163,011
Defense Special Weapons Agency[4]	67,171	253	0	2,889	180	[illegible]	7,739	0	23,015
Special Operations Command	24,145	0	0	0	0	0	0	0	24,145
Washington Headquarters Services[5] [6] [7]	169,460	6,522	0	3,422	1,508	42,729	33,037	30,991	51,251
Department of Education	6,511	0	0	0	0	0	0	0	6,511
Department of Energy	694,022	0	0	92,325	37,900	24,817	17,602	263,726	257,652
Dept of Health & Human Svcs, total	141,948	0	0	0	0	0	0	0	141,948
National Institutes of Health[8]	141,948	0	0	0	0	0	0	0	141,948
Dept of Housing & Urban Dvlpmt	373	0	0	0	0	0	0	0	373
Department of the Interior, total	21,409	0	0	12,422	8,389	123	151	282	42
Bureau of Reclamation	4,901	0	0	0	4,871	30	0	0	0
Geological Survey[9]	11,618	0	0	10,622	752	93	151	0	0
Minerals Management Service	3,099	0	0	1,800	975	0	0	282	42
National Park Service[10]	1,791	0	0	0	1,791	0	0	0	0
Department of Justice, total	211	0	0	0	0	0	211	0	0
Immigration & Naturalization Svc	211	0	0	0	0	0	211	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-25. Federal obligations for research in engineering, by agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, n.e.c.
Department of Transportation, total	244,836	0	0	45	139,810	7,089	18,110	4,993	74,789
Coast Guard	2,492	0	0	0	386	1,049	513	544	0
Federal Aviation Administration	49,531	0	0	0	45,599	0	0	3,932	0
Federal Highway Administration	141,641	0	0	45	89,768	0	2,170	117	49,541
Federal Railroad Administration	20,973	0	0	0	4,057	6,040	7,356	300	3,220
Federal Transit Administration	4,208	0	0	0	0	0	296	0	3,912
National Highway Traffic Safety Administration	21,750	0	0	0	0	0	7,775	0	13,975
Research & Special Programs Admin	4,241	0	0	0	0	0	0	100	4,141
Department of the Treasury, total	2	0	0	0	0	0	0	0	2
Bureau of Engraving & Printing	2	0	0	0	0	0	0	0	2
Department of Veterans Affairs	131	0	0	0	0	0	0	0	131
Other agencies:									
Environmental Protection Agency	112,567	0	0	2,481	0	0	0	0	110,086
Federal Communications Commission	1,509	0	0	0	0	1,509	0	0	0
National Aeronautics & Space Admin	1,600,299	1,022,148	444,866	3,039	209	24,350	17,896	47,610	40,181
National Science Foundation	441,458	0	0	38,982	37,494	42,488	7,428	105,014	210,052
Nuclear Regulatory Commission	70,909	0	0	0	0	0	0	0	70,909
Tennessee Valley Authority	900	0	0	900	0	0	0	0	0
United States Information Agency	149	0	0	0	0	149	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

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[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	1,554,112	251,261	1,102,929	199,922	674,183	8,509	182,765	11,634	38,793	432,482
Departments:										
Department of Agriculture, total	16,362	14,270	2,092	0	113,087	254	104,381	0	8,452	0
Agricultural Research Service[1]	2,660	568	2,092	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	46,305	0	38,865	0	7,440	0
Economic Research Service	0	0	0	0	52,950	0	52,950	0	0	0
Forest Service	9,906	9,906	0	0	12,481	254	11,215	0	1,012	0
Nat'l Agricultural Statistics Svc	3,796	3,796	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc[3]	0	0	0	0	1,351	0	1,351	0	0	0
Department of Commerce, total	77,341	13,464	57,570	6,307	19,124	0	5,479	7,709	5,936	0
Bureau of the Census	1,697	1,564	133	0	414	0	227	187	0	0
Economic Development Admin	0	0	0	0	591	0	591	0	0	0
National Inst of Standards & Tech	50,340	3,531	40,502	6,307	216	0	216	0	0	0
Nat'l Oceanic & Atmospheric Admin	18,077	8,369	9,708	0	17,903	0	4,445	7,522	5,936	0
National Telecommunications & Information Administration	7,227	0	7,227	0	0	0	0	0	0	0
Department of Defense, total	616,418	93,515	474,283	48,620	2,387	0	217	0	145	2,025
Department of the Army	81,784	12,861	37,533	31,390	2,387	0	217	0	145	2,025
Department of the Navy	45,670	15,819	29,851	0	0	0	0	0	0	0
Department of the Air Force	82,430	51,245	22,913	8,272	0	0	0	0	0	0
Defense Agencies, total	406,534	13,590	383,986	8,958	0	0	0	0	0	0
Ballistic Missile Defense Organization	16,728	1,477	12,000	3,251	0	0	0	0	0	0
Defense Advanced Research Projects Agency[4]	360,974	3,906	356,642	426	0	0	0	0	0	0
Defense Special Weapons Agency[5]	1,145	0	1,145	0	0	0	0	0	0	0
Washington Headquarters Services[6] [7] [8]	27,687	8,207	14,199	5,281	0	0	0	0	0	0
Department of Education	814	0	814	0	113,747	0	0	0	0	113,747
Department of Energy	288,685	0	201,015	87,670	0	0	0	0	0	0
Dept of Health & Human Svcs, total	94,634	40,629	53,684	321	134,717	0	17,365	143	1,629	115,580
Administration on Aging	0	0	0	0	171	0	0	0	0	171
Admin for Children & Families	0	0	0	0	12,567	0	0	0	0	12,567
Agcy for Hlth Care Policy & Rsch	10,164	8	9,835	321	22,120	0	17,365	143	1,435	3,177
National Institutes of Health[9]	84,470	40,621	43,849	0	90,891	0	0	0	194	90,697
Office of the Secretary, total	0	0	0	0	8,968	0	0	0	0	8,968
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	8,968	0	0	0	0	8,968
Dept of Housing & Urban Dvlpmt	79	0	0	79	10,208	0	9,020	6	445	737
Department of the Interior, total	18,319	3,146	14,088	1,085	13,855	4,730	139	31	564	8,391
Geological Survey[10]	17,037	3,146	13,891	0	319	0	0	0	0	319
Minerals Management Service	1,085	0	0	1,085	1,985	11	111	0	553	1,310
National Park Service[11]	197	0	197	0	11,551	4,719	28	31	11	6,762
Department of Justice, total	0	0	0	0	24,614	55	655	1,600	15,800	6,504
Bureau of Prisons	0	0	0	0	2,619	55	55	0	1,165	1,344
Office of Justice Programs	0	0	0	0	21,995	0	600	1,600	14,635	5,160
Department of Labor, total	0	0	0	0	26,672	0	26,672	0	0	0
Bureau of Labor Statistics	0	0	0	0	13,300	0	13,300	0	0	0
Employment & Training Admin	0	0	0	0	2,622	0	2,622	0	0	0
Occupational Safety & Hlth Admin	0	0	0	0	6,602	0	6,602	0	0	0
Office of the Secretary	0	0	0	0	1,764	0	1,764	0	0	0
Pension Benefit Guaranty Corp	0	0	0	0	53	0	53	0	0	0
Pension & Welfare Benefits Admin	0	0	0	0	2,331	0	2,331	0	0	0
Department of State, total	0	0	0	0	924	0	40	450	141	293

See explanatory information, if any, and SOURCE at end of table.

Table C-26. Federal obligations for research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Department of Transportation, total	18,155	207	13,387	4,561	14,530	0	4,069	322	913	9,226
Coast Guard	1,253	0	1,253	0	0	0	0	0	0	0
Federal Aviation Administration	8,859	0	8,859	0	0	0	0	0	0	0
Federal Highway Administration	2,374	207	1,646	521	5,825	0	3,314	322	913	1,276
Federal Railroad Administration	330	0	190	140	0	0	0	0	0	0
Federal Transit Administration	946	0	473	473	428	0	355	0	0	73
National Highway Traffic Safety Administration	3,427	0	0	3,427	5,069	0	0	0	0	5,069
Office of the Secretary	0	0	0	0	2,808	0	0	0	0	2,808
Research & Special Programs Admin	966	0	966	0	400	0	400	0	0	0
Department of the Treasury, total	14,150	0	14,150	0	33,991	0	2,050	0	0	31,941
Internal Revenue Service	14,000	0	14,000	0	33,454	0	1,513	0	0	31,941
Office of Thrift Supervision	0	0	0	0	537	0	537	0	0	0
United States Customs Service	150	0	150	0	0	0	0	0	0	0
Other agencies:										
Appalachian Regional Commission	0	0	0	0	900	0	0	900	0	0
Federal Communications Commission	108	0	108	0	1,099	0	1,099	0	0	0
Federal Trade Commission	0	0	0	0	505	0	505	0	0	0
Internat'l Development Cooperation Agency, total	0	0	0	0	13,515	0	7,660	255	3,300	2,300
Agency for Internat'l Dvlpmt[12]	0	0	0	0	13,515	0	7,660	255	3,300	2,300
National Aeronautics & Space Admin	75,242	4,550	26,318	44,374	406	0	0	0	260	146
National Science Foundation	333,805	81,480	245,420	6,905	101,304	0	226	2	723	100,353
Smithsonian Institution	0	0	0	0	33,666	3,470	0	0	485	29,711
Social Security Administration[13]	0	0	0	0	11,528	0	0	0	0	11,528
US Arms Control & Disarmament Agcy	0	0	0	0	216	0	0	216	0	0
US Internat'l Trade Commission	0	0	0	0	3,188	0	3,188	0	0	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

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[11] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[12] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[13] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	14,462,383	2,689,191	1,130,963	272,785	7,406,125	1,522,044	1,235,197	76,463	80,151	49,464
Departments:										
Department of Agriculture, total	549,980	383,421	4,557	0	155,643	0	3,689	0	700	1,970
Agricultural Research Service[2]	364,597	344,809	0	0	15,540	0	2,109	0	180	1,959
Cooperative State Research, Education, & Extension Service[3]	148,683	7,093	4,557	0	135,227	0	1,422	0	384	0
Economic Research Service	5,295	4,993	0	0	302	0	0	0	0	0
Foreign Agricultural Service[4]	856	642	0	0	214	0	0	0	0	0
Forest Service	29,300	24,635	0	0	4,360	0	158	0	136	11
Nat'l Agricultural Statistics Svc	1,249	1,249	0	0	0	0	0	0	0	0
Department of Commerce, total	37,536	32,442	713	0	3,637	89	655	0	0	0
Bureau of the Census	850	850	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	36,686	31,592	713	0	3,637	89	655	0	0	0
Department of Defense, total	1,137,866	294,811	139,161	1,030	645,661	9,426	37,452	1,769	0	8,556
Department of the Army	195,097	90,258	28,541	222	72,035	373	2,263	6	0	1,399
Department of the Navy	376,671	148,025	15,444	279	184,052	2,442	20,897	288	0	5,244
Department of the Air Force	227,886	38,818	39,411	117	137,381	268	10,463	0	0	1,428
Defense Agencies, total	338,212	17,710	55,765	412	252,193	6,343	3,829	1,475	0	485
Ballistic Missile Defense Organization	5,224	709	1,064	237	3,064	150	0	0	0	0
Defense Advanced Research Projects Agency[5]	78,952	3,842	27,770	100	37,903	5,193	3,029	730	0	385
Washington Headquarters Services[6] [7] [8]	254,036	13,159	26,931	75	211,226	1,000	800	745	0	100
Department of Education	3,459	149	0	0	2,310	0	1,000	0	0	0
Department of Energy	1,929,656	49,134	67,134	185,728	488,802	1,046,430	26,691	62,485	2,077	1,175
Dept of Health & Human Svcs, total	6,504,626	1,162,353	239,995	80,833	3,991,923	16,704	924,357	9,288	54,847	24,326
Health Resources & Services Admin	1,000	1,000	0	0	0	0	0	0	0	0
National Institutes of Health[9]	6,503,626	1,161,353	239,995	80,833	3,991,923	16,704	924,357	9,288	54,847	24,326
Department of the Interior, total	56,038	52,846	0	0	2,868	0	0	0	324	0
Geological Survey[10]	55,538	52,635	0	0	2,579	0	0	0	324	0
National Park Service[11]	500	211	0	0	289	0	0	0	0	0
Department of Justice, total	12,564	882	2,661	0	4,957	0	1,364	0	2,700	0
Office of Justice Programs	12,564	882	2,661	0	4,957	0	1,364	0	2,700	0
Department of Labor, total	11,500	6,400	0	0	5,100	0	0	0	0	0
Bureau of Labor Statistics	11,500	6,400	0	0	5,100	0	0	0	0	0
Department of Transportation, total	41,256	8,752	9,153	185	3,077	0	5,061	0	15,028	0
Federal Highway Administration	38,448	5,944	9,153	185	3,077	0	5,061	0	15,028	0
Office of the Secretary	2,808	2,808	0	0	0	0	0	0	0	0
Department of the Treasury, total	45	45	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	45	45	0	0	0	0	0	0	0	0
Department of Veterans Affairs	12,483	12,483	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-27. Federal obligations for basic research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Environmental Protection Agency	51,700	26,368	13,704	0	8,434	0	2,762	0	197	235
Internat'l Development Cooperation Agency, total	2,000	900	0	0	100	0	1,000	0	0	0
Agency for Internat'l Dvlpmt[12]	2,000	900	0	0	100	0	1,000	0	0	0
Library of Congress	518	518	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	1,980,935	511,334	595,141	5,009	478,446	319,592	61,093	1,959	995	7,366
National Science Foundation	2,002,895	19,027	58,744	0	1,615,167	129,803	170,073	962	3,283	5,836
Smithsonian Institution	127,000	127,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	326	326	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[9] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[10] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[11] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[12] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-28. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	14,958,662	2,756,447	1,150,673	293,589	7,673,855	1,569,689	1,303,007	82,995	78,101	50,306
Departments:										
Department of Agriculture, total	600,159	385,345	5,400	0	204,449	0	2,392	0	724	1,849
Agricultural Research Service[2]	364,167	345,286	0	0	16,286	0	780	0	176	1,639
Cooperative State Research, Education, & Extension Service[3]	198,769	8,746	5,395	0	182,823	0	1,417	0	388	0
Economic Research Service	5,310	5,310	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	922	692	0	0	230	0	0	0	0	0
Forest Service	29,700	24,020	5	0	5,110	0	195	0	160	210
Nat'l Agricultural Statistics Svc	1,291	1,291	0	0	0	0	0	0	0	0
Department of Commerce, total	41,234	36,029	729	0	3,716	91	669	0	0	0
Bureau of the Census	1,010	1,010	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	40,224	35,019	729	0	3,716	91	669	0	0	0
Department of Defense, total	1,029,402	284,075	119,113	526	580,866	6,756	28,704	1,989	0	7,373
Department of the Army	175,377	83,059	29,716	115	59,179	169	1,952	6	0	1,181
Department of the Navy	338,287	128,887	15,884	264	168,888	2,419	16,222	723	0	5,000
Department of the Air Force	211,265	60,820	41,572	43	100,202	146	7,371	74	0	1,037
Defense Agencies, total	304,473	11,309	31,941	104	252,597	4,022	3,159	1,186	0	155
Ballistic Missile Defense Organization	8,116	3,852	550	0	3,464	250	0	0	0	0
Defense Advanced Research Projects Agency[5]	82,343	4,007	30,607	104	39,778	3,772	3,159	761	0	155
Washington Headquarters Services[6] [7]	214,014	3,450	784	0	209,355	0	0	425	0	0
Department of Education	3,104	141	0	0	1,963	0	1,000	0	0	0
Department of Energy	2,004,023	63,910	107,091	202,991	471,414	1,068,839	18,800	67,832	1,927	1,219
Dept of Health & Human Svcs, total	6,940,112	1,238,387	256,209	84,832	4,261,611	17,831	986,373	10,348	58,552	25,969
Health Resources & Services Admin	1,000	1,000	0	0	0	0	0	0	0	0
National Institutes of Health[8]	6,939,112	1,237,387	256,209	84,832	4,261,611	17,831	986,373	10,348	58,552	25,969
Department of the Interior, total	56,410	52,343	0	0	3,869	0	0	0	198	0
Geological Survey[9]	55,910	52,132	0	0	3,580	0	0	0	198	0
National Park Service[10]	500	211	0	0	289	0	0	0	0	0
Department of Justice, total	11,562	200	0	0	2,962	0	7,800	0	600	0
Office of Justice Programs	11,562	200	0	0	2,962	0	7,800	0	600	0
Department of Labor, total	11,300	11,300	0	0	0	0	0	0	0	0
Bureau of Labor Statistics	11,300	11,300	0	0	0	0	0	0	0	0
Department of Transportation, total	33,528	6,268	10,190	188	0	0	5,353	0	11,529	0
Federal Highway Administration	30,810	3,550	10,190	188	0	0	5,353	0	11,529	0
Office of the Secretary	2,718	2,718	0	0	0	0	0	0	0	0
Department of the Treasury, total	24	24	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	24	24	0	0	0	0	0	0	0	0
Department of Veterans Affairs	13,454	13,454	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-28. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intra-mural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Environmental Protection Agency	52,800	26,929	13,996	0	8,613	0	2,821	0	201	240
Internat'l Development Cooperation Agency, total	4,000	500	0	0	20	0	3,000	0	0	480
Agency for Internat'l Dvlpmt[11]	4,000	500	0	0	20	0	3,000	0	0	480
Library of Congress	502	502	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	1,959,318	489,829	569,498	5,052	478,446	347,803	58,524	1,958	980	7,228
National Science Foundation	2,067,880	17,361	68,447	0	1,655,926	128,369	187,571	868	3,390	5,948
Smithsonian Institution	129,000	129,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	850	850	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-29. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	15,204,716	2,717,579	1,090,411	312,024	7,874,912	1,648,385	1,330,793	103,753	75,557	51,302
Departments:										
Department of Agriculture, total	593,530	390,843	5,401	0	192,323	0	2,392	0	722	1,849
Agricultural Research Service[2]	369,326	351,929	0	0	14,802	0	780	0	176	1,639
Cooperative State Research, Education, & Extension Service[3]	186,844	7,464	5,396	0	172,181	0	1,417	0	386	0
Economic Research Service	5,431	5,431	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	922	692	0	0	230	0	0	0	0	0
Forest Service	29,700	24,020	5	0	5,110	0	195	0	160	210
Nat'l Agricultural Statistics Svc	1,307	1,307	0	0	0	0	0	0	0	0
Department of Commerce, total	40,744	35,539	729	0	3,716	91	669	0	0	0
Bureau of the Census	1,010	1,010	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	39,734	34,529	729	0	3,716	91	669	0	0	0
Department of Defense, total	1,116,650	323,893	126,717	573	615,051	6,778	33,506	1,965	0	8,167
Department of the Army	203,014	98,347	32,789	51	67,504	119	2,974	6	0	1,224
Department of the Navy	380,319	144,141	17,896	381	190,485	2,665	18,277	762	0	5,712
Department of the Air Force	225,386	70,031	44,258	45	100,205	273	9,348	181	0	1,045
Defense Agencies, total	307,931	11,374	31,774	96	256,857	3,721	2,907	1,016	0	186
Ballistic Missile Defense Organization	7,522	5,357	0	0	1,915	250	0	0	0	0
Defense Advanced Research Projects Agency[5]	75,774	3,687	31,744	96	32,982	3,471	2,907	701	0	186
Washington Headquarters Services[6] [7]	224,635	2,330	30	0	221,960	0	0	315	0	0
Department of Education	5,326	136	0	0	1,990	0	3,200	0	0	0
Department of Energy	2,095,489	72,964	107,939	218,074	459,846	1,134,896	11,118	88,474	1,127	1,051
Dept of Health & Human Svcs, total	7,004,485	1,150,004	263,005	88,584	4,374,663	18,304	1,012,539	10,622	60,106	26,658
National Institutes of Health[8]	7,004,485	1,150,004	263,005	88,584	4,374,663	18,304	1,012,539	10,622	60,106	26,658
Department of the Interior, total	64,843	60,753	0	0	3,900	0	0	0	190	0
Geological Survey[9]	64,343	60,553	0	0	3,600	0	0	0	190	0
National Park Service[10]	500	200	0	0	300	0	0	0	0	0
Department of Justice, total	23,600	1,000	0	0	13,900	0	2,500	0	6,200	0
Office of Justice Programs	23,600	1,000	0	0	13,900	0	2,500	0	6,200	0
Department of Labor, total	11,100	11,100	0	0	0	0	0	0	0	0
Bureau of Labor Statistics	11,100	11,100	0	0	0	0	0	0	0	0
Department of Transportation, total	40,088	17,140	11,995	0	0	0	8,307	0	2,646	0
Federal Highway Administration	35,820	12,872	11,995	0	0	0	8,307	0	2,646	0
Office of the Secretary	4,268	4,268	0	0	0	0	0	0	0	0
Department of the Treasury, total	23	23	0	0	0	0	0	0	0	0
Bureau of Engraving & Printing	23	23	0	0	0	0	0	0	0	0
Department of Veterans Affairs	11,713	11,713	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-29. Preliminary Federal obligations for basic research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intramural [1]	Extramural								
			United States and territories								Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Other agencies:										
Environmental Protection Agency	53,900	27,490	14,288	0	8,792	0	2,875	0	205	250
Internat'l Development Cooperation Agency, total	6,000	770	0	0	30	0	4,600	0	0	600
Agency for Internat'l Dvlpmt [11]	6,000	770	0	0	30	0	4,600	0	0	600
Library of Congress	511	511	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	1,857,709	464,427	485,107	4,793	478,446	360,058	55,489	1,812	950	6,627
National Science Foundation	2,146,855	17,123	75,230	0	1,722,255	128,258	193,598	880	3,411	6,100
Smithsonian Institution	132,000	132,000	0	0	0	0	0	0	0	0
Tennessee Valley Authority	150	150	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

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[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

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[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-30. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	14,462,383	14,958,662	15,204,716
Life sciences, total	6,911,030	7,315,195	7,393,879
Biological (excluding environmental)	3,343,011	NA	NA
Environmental biology	264,301	NA	NA
Agricultural	329,523	NA	NA
Medical	2,754,703	NA	NA
Life sciences, n.e.c	219,492	NA	NA
Psychology, total	281,550	298,166	301,976
Biological aspects	33,234	NA	NA
Social aspects	8,514	NA	NA
Psychological sciences, n.e.c.	239,802	NA	NA
Physical sciences, total	2,901,742	3,114,968	2,962,445
Astronomy	718,629	NA	NA
Chemistry	548,328	NA	NA
Physics	1,569,553	NA	NA
Physical sciences, n.e.c.	65,232	NA	NA
Environmental sciences, total	1,531,200	1,514,824	1,507,851
Atmospheric	673,461	NA	NA
Geological	383,775	NA	NA
Oceanography	288,823	NA	NA
Environmental sciences, n.e.c.	185,141	NA	NA
Mathematics & computer sciences, total	621,963	733,459	760,695
Mathematics	159,428	NA	NA
Computer sciences	360,748	NA	NA
Mathematics & computer sciences, n.e.c.	101,787	NA	NA
Engineering, total	1,606,633	1,338,834	1,612,488
Aeronautical	261,112	NA	NA
Astronautical	70,655	NA	NA
Chemical	57,887	NA	NA
Civil	52,906	NA	NA
Electrical	193,569	NA	NA
Mechanical	119,906	NA	NA
Metallurgy & materials	463,858	NA	NA
Engineering, n.e.c.	386,740	NA	NA
Social sciences, total	229,955	237,510	252,434
Anthropology	3,504	NA	NA
Economics	29,689	NA	NA
Political science	1,117	NA	NA
Sociology	11,137	NA	NA
Social sciences, n.e.c.	184,508	NA	NA
Other sciences, n.e.c.	378,310	405,706	412,948

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-31. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	14,462,383	6,911,030	281,550	2,901,742	1,531,200	621,963	1,606,633	229,955	378,310
Departments:									
Department of Agriculture, total	549,980	467,755	42	41,638	4,303	3,104	12,715	20,178	245
Agricultural Research Service[1]	364,597	326,667	0	30,678	2,430	1,449	3,373	0	0
Cooperative State Research, Education, & Extension Service[2]	148,683	119,702	0	9,030	1,243	0	5,096	13,612	0
Economic Research Service	5,295	0	0	0	0	0	0	5,295	0
Foreign Agricultural Service[3]	856	856	0	0	0	0	0	0	0
Forest Service	29,300	20,530	42	1,930	630	406	4,246	1,271	245
Nat'l Agricultural Statistics Svc	1,249	0	0	0	0	1,249	0	0	0
Department of Commerce, total	37,536	258	161	30,241	262	1,716	4,898	0	0
Bureau of the Census	850	0	161	0	0	689	0	0	0
National Inst of Standards & Tech	36,686	258	0	30,241	262	1,027	4,898	0	0
Department of Defense, total	1,137,866	122,937	33,111	159,747	164,202	134,574	499,625	0	23,670
Department of the Army	195,097	31,415	4,865	31,834	17,589	29,348	79,842	0	204
Department of the Navy	376,671	28,626	21,469	52,732	101,321	34,275	115,273	0	22,975
Department of the Air Force	227,886	15,736	4,571	51,750	26,133	24,835	104,370	0	491
Defense Agencies, total	338,212	47,160	2,206	23,431	19,159	46,116	200,140	0	0
Ballistic Missile Defense Organization	5,224	0	0	1,400	15	0	3,809	0	0
Defense Advanced Research Projects Agency[4]	78,952	4,163	0	2,331	0	23,710	48,748	0	0
Washington Headquarters Services[5] [6] [7]	254,036	42,997	2,206	19,700	19,144	22,406	147,583	0	0
Department of Education	3,459	526	0	0	0	0	0	2,933	0
Department of Energy	1,929,656	170,799	0	1,184,952	207,119	89,545	276,299	0	942
Dept of Health & Human Svcs, total	6,504,626	5,662,003	242,416	101,668	19,745	55,621	93,468	59,849	269,856
Health Resources & Services Admin	1,000	1,000	0	0	0	0	0	0	0
National Institutes of Health[8]	6,503,626	5,661,003	242,416	101,668	19,745	55,621	93,468	59,849	269,856
Department of the Interior, total	56,038	10,947	0	500	44,591	0	0	0	0
Geological Survey[9]	55,538	10,947	0	0	44,591	0	0	0	0
National Park Service[10]	500	0	0	500	0	0	0	0	0
Department of Justice, total	12,564	1,165	1,100	0	0	0	0	9,275	1,024
Office of Justice Programs	12,564	1,165	1,100	0	0	0	0	9,275	1,024
Department of Labor, total	11,500	0	0	0	0	0	0	11,500	0
Bureau of Labor Statistics	11,500	0	0	0	0	0	0	11,500	0

See explanatory information, if any, and SOURCE at end of table.

Table C-31. Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of Transportation, total	41,256	0	91	14	35	329	36,041	3,175	1,571
Federal Highway Administration	38,448	0	91	14	35	329	36,041	367	1,571
Office of the Secretary	2,808	0	0	0	0	0	0	2,808	0
Department of the Treasury, total	45	0	0	45	0	0	0	0	0
Bureau of Engraving & Printing	45	0	0	45	0	0	0	0	0
Department of Veterans Affairs	12,483	11,983	500	0	0	0	0	0	0
Other agencies:									
Environmental Protection Agency	51,700	14,293	0	0	22,124	0	15,283	0	0
Internat'l Development Cooperation Agency, total	2,000	1,800	0	0	0	0	0	115	85
Agency for Internat'l Dvlpmt[11]	2,000	1,800	0	0	0	0	0	115	85
Library of Congress	518	0	0	0	0	0	0	0	518
National Aeronautics & Space Admin	1,980,935	77,669	3,553	883,127	634,623	23,157	336,556	406	21,844
National Science Foundation	2,002,895	320,215	576	462,286	428,418	313,917	331,705	88,858	56,920
Smithsonian Institution	127,000	48,579	0	37,445	5,675	0	0	33,666	1,635
Tennessee Valley Authority	326	101	0	79	103	0	43	0	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	14,958,662	7,315,195	298,166	3,114,968	1,514,824	733,459	1,338,834	237,510	405,706
Departments:									
Department of Agriculture, total	600,159	514,607	42	43,614	4,353	2,003	13,976	21,344	220
Agricultural Research Service[1]	364,167	327,710	0	30,399	2,354	231	3,473	0	0
Cooperative State Research, Education, & Extension Service[2]	198,769	165,205	0	11,244	1,357	0	6,217	14,746	0
Economic Research Service	5,310	0	0	0	0	0	0	5,310	0
Foreign Agricultural Service[3]	922	922	0	0	0	0	0	0	0
Forest Service	29,700	20,770	42	1,971	642	481	4,286	1,288	220
Nat'l Agricultural Statistics Svc	1,291	0	0	0	0	1,291	0	0	0
Department of Commerce, total	41,234	283	191	33,158	287	1,945	5,370	0	0
Bureau of the Census	1,010	0	191	0	0	819	0	0	0
National Inst of Standards & Tech	40,224	283	0	33,158	287	1,126	5,370	0	0
Department of Defense, total	1,029,402	91,859	34,403	165,848	137,307	205,984	369,008	335	24,658
Department of the Army	175,377	28,624	4,542	27,281	12,889	30,839	70,867	335	0
Department of the Navy	338,287	26,111	19,583	48,100	92,420	31,265	99,523	0	21,285
Department of the Air Force	211,265	17,385	6,134	48,057	15,173	27,677	96,707	0	132
Defense Agencies, total	304,473	19,739	4,144	42,410	16,825	116,203	101,911	0	3,241
Ballistic Missile Defense Organization	8,116	0	0	3,598	10	0	4,508	0	0
Defense Advanced Research Projects Agency[4]	82,343	2,629	0	474	0	26,891	49,108	0	3,241
Washington Headquarters Services[5] [6]	214,014	17,110	4,144	38,338	16,815	89,312	48,295	0	0
Department of Education	3,104	0	0	0	0	0	0	3,054	50
Department of Energy	2,004,023	175,575	0	1,375,427	211,308	115,261	125,813	0	639
Dept of Health & Human Svcs, total	6,940,112	6,033,170	258,135	108,250	20,817	58,982	99,923	65,228	295,607
Health Resources & Services Admin	1,000	1,000	0	0	0	0	0	0	0
National Institutes of Health[7]	6,939,112	6,032,170	258,135	108,250	20,817	58,982	99,923	65,228	295,607
Department of the Interior, total	56,410	11,000	0	500	44,910	0	0	0	0
Geological Survey[8]	55,910	11,000	0	0	44,910	0	0	0	0
National Park Service[9]	500	0	0	500	0	0	0	0	0
Department of Justice, total	11,562	1,000	600	0	0	0	0	9,062	900
Office of Justice Programs	11,562	1,000	600	0	0	0	0	9,062	900
Department of Labor, total	11,300	0	0	0	0	0	0	11,300	0
Bureau of Labor Statistics	11,300	0	0	0	0	0	0	11,300	0

See explanatory information, if any, and SOURCE at end of table.

Table C-32. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of Transportation, total	33,528	0	78	17	19	251	27,531	3,182	2,450
Federal Highway Administration	30,810	0	78	17	19	251	27,531	464	2,450
Office of the Secretary	2,718	0	0	0	0	0	0	2,718	0
Department of the Treasury, total	24	0	0	24	0	0	0	0	0
Bureau of Engraving & Printing	24	0	0	24	0	0	0	0	0
Department of Veterans Affairs	13,454	12,915	539	0	0	0	0	0	0
Other agencies:									
Environmental Protection Agency	52,800	14,606	0	0	22,589	0	15,605	0	0
Internat'l Development Cooperation Agency, total	4,000	4,000	0	0	0	0	0	0	0
Agency for Internat'l Dvlpmt[10]	4,000	4,000	0	0	0	0	0	0	0
Library of Congress	502	0	0	0	0	0	0	0	502
National Aeronautics & Space Admin	1,959,318	76,761	3,559	873,563	627,811	22,985	332,852	378	21,409
National Science Foundation	2,067,880	329,150	619	477,764	439,182	326,048	348,660	88,926	57,531
Smithsonian Institution	129,000	50,082	0	36,535	5,942	0	0	34,701	1,740
Tennessee Valley Authority	850	187	0	268	299	0	96	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[8] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[9] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[10] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	15,204,716	7,393,879	301,976	2,962,445	1,507,851	760,695	1,612,488	252,434	412,948
Departments:									
Department of Agriculture, total	593,530	511,656	42	42,530	4,143	2,042	13,026	19,871	220
Agricultural Research Service[1]	369,326	332,978	0	30,184	2,398	254	3,512	0	0
Cooperative State Research, Education, & Extension Service[2]	186,844	156,986	0	10,375	1,103	0	5,228	13,152	0
Economic Research Service	5,431	0	0	0	0	0	0	5,431	0
Foreign Agricultural Service[3]	922	922	0	0	0	0	0	0	0
Forest Service	29,700	20,770	42	1,971	642	481	4,286	1,288	220
Nat'l Agricultural Statistics Svc	1,307	0	0	0	0	1,307	0	0	0
Department of Commerce, total	40,744	280	191	32,753	284	1,931	5,305	0	0
Bureau of the Census	1,010	0	191	0	0	819	0	0	0
National Inst of Standards & Tech	39,734	280	0	32,753	284	1,112	5,305	0	0
Department of Defense, total	1,116,650	96,298	35,640	164,135	152,103	175,549	469,354	0	23,571
Department of the Army	203,014	32,295	4,903	31,875	16,268	38,315	79,136	0	222
Department of the Navy	380,319	28,938	21,704	53,308	102,456	34,650	116,515	0	22,748
Department of the Air Force	225,386	19,236	6,787	52,463	16,870	30,660	98,769	0	601
Defense Agencies, total	307,931	15,829	2,246	26,489	16,509	71,924	174,934	0	0
Ballistic Missile Defense Organization	7,522	0	0	1,500	10	0	6,012	0	0
Defense Advanced Research Projects Agency[4]	75,774	0	0	225	0	20,501	55,048	0	0
Washington Headquarters Services[5] [6]	224,635	15,829	2,246	24,764	16,499	51,423	113,874	0	0
Department of Education	5,326	0	0	0	0	0	0	5,276	50
Department of Energy	2,095,489	185,048	0	1,255,385	209,535	147,215	297,806	0	500
Dept of Health & Human Svcs, total	7,004,485	6,088,999	260,567	109,270	21,013	59,538	100,865	65,842	298,391
National Institutes of Health[7]	7,004,485	6,088,999	260,567	109,270	21,013	59,538	100,865	65,842	298,391
Department of the Interior, total	64,843	11,600	0	500	52,743	0	0	0	0
Geological Survey[8]	64,343	11,600	0	0	52,743	0	0	0	0
National Park Service[9]	500	0	0	500	0	0	0	0	0
Department of Justice, total	23,600	3,000	1,000	0	0	0	0	18,700	900
Office of Justice Programs	23,600	3,000	1,000	0	0	0	0	18,700	900
Department of Labor, total	11,100	0	0	0	0	0	0	11,100	0
Bureau of Labor Statistics	11,100	0	0	0	0	0	0	11,100	0

See explanatory information, if any, and SOURCE at end of table.

Table C-33. Preliminary Federal obligations for basic research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Department of Transportation, total	40,088	0	29	23	4	206	33,397	527	5,902
Federal Highway Administration	35,820	0	29	23	4	206	33,397	527	1,634
Office of the Secretary	4,268	0	0	0	0	0	0	0	4,268
Department of the Treasury, total	23	0	0	23	0	0	0	0	0
Bureau of Engraving & Printing	23	0	0	23	0	0	0	0	0
Department of Veterans Affairs	11,713	11,243	470	0	0	0	0	0	0
Other agencies:									
Environmental Protection Agency	53,900	14,910	0	0	23,059	0	15,931	0	0
Internat'l Development Cooperation Agency, total	6,000	5,900	0	0	0	0	0	0	100
Agency for Internat'l Dvlpmt[10]	6,000	5,900	0	0	0	0	0	0	100
Library of Congress	511	0	0	0	0	0	0	0	511
National Aeronautics & Space Admin	1,857,709	72,784	3,393	828,260	595,186	21,793	315,588	390	20,315
National Science Foundation	2,146,855	340,907	644	492,166	443,589	352,421	361,216	95,207	60,705
Smithsonian Institution	132,000	51,215	0	37,400	6,081	0	0	35,521	1,783
Tennessee Valley Authority	150	39	0	0	111	0	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

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[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

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NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	281,550	33,234	8,514	239,802	6,911,030	3,343,011	264,301	329,523	2,754,703	219,492
Departments:										
Department of Agriculture, total	42	0	42	0	467,755	67,937	58,777	327,835	13,200	6
Agricultural Research Service[1]	0	0	0	0	326,667	27,486	25,883	266,168	7,124	6
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	119,702	34,851	19,894	60,381	4,576	0
Foreign Agricultural Service[3]	0	0	0	0	856	0	0	856	0	0
Forest Service	42	0	42	0	20,530	5,600	13,000	430	1,500	0
Department of Commerce, total	161	0	161	0	258	258	0	0	0	0
Bureau of the Census	161	0	161	0	0	0	0	0	0	0
National Inst of Standards & Tech	0	0	0	0	258	258	0	0	0	0
Department of Defense, total	33,111	23,077	2,757	7,277	122,937	34,507	31,708	0	52,210	4,512
Department of the Army	4,865	0	2,757	2,108	31,415	5,149	395	0	24,751	1,120
Department of the Navy	21,469	19,586	0	1,883	28,626	11,300	9,040	0	8,286	0
Department of the Air Force	4,571	2,285	0	2,286	15,736	8,936	6,800	0	0	0
Defense Agencies, total	2,206	1,206	0	1,000	47,160	9,122	15,473	0	19,173	3,392
Defense Advanced Research Projects Agency[4]	0	0	0	0	4,163	2,418	0	0	1,745	0
Washington Headquarters Services[5][6][7]	2,206	1,206	0	1,000	42,997	6,704	15,473	0	17,428	3,392
Department of Education	0	0	0	0	526	0	0	0	0	526
Department of Energy	0	0	0	0	170,799	162,521	1,000	0	0	7,278
Dept of Health & Human Svcs, total	242,416	9,367	3,927	229,122	5,662,003	2,755,117	45,866	0	2,672,637	188,383
Health Resources & Services Admin	0	0	0	0	1,000	0	0	0	1,000	0
National Institutes of Health[8]	242,416	9,367	3,927	229,122	5,661,003	2,755,117	45,866	0	2,671,637	188,383
Department of the Interior, total	0	0	0	0	10,947	5,802	5,145	0	0	0
Geological Survey[9]	0	0	0	0	10,947	5,802	5,145	0	0	0
Department of Justice, total	1,100	200	600	300	1,165	565	0	0	0	600
Office of Justice Programs	1,100	200	600	300	1,165	565	0	0	0	600
Department of Transportation, total	91	0	40	51	0	0	0	0	0	0
Federal Highway Administration	91	0	40	51	0	0	0	0	0	0
Department of Veterans Affairs	500	500	0	0	11,983	5,559	0	0	6,424	0

See explanatory information, if any, and SOURCE at end of table.

Table C-34. Federal obligations for basic research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Other agencies:										
Environmental Protection Agency	0	0	0	0	14,293	0	11,582	0	2,711	0
Internat'l Development Cooperation Agency, total	0	0	0	0	1,800	0	600	1,000	0	200
Agency for Internat'l Dvlpmt[10]	0	0	0	0	1,800	0	600	1,000	0	200
National Aeronautics & Space Admin	3,553	71	430	3,052	77,669	50,989	4,180	635	7,521	14,344
National Science Foundation	576	19	557	0	320,215	238,840	77,732	0	0	3,643
Smithsonian Institution	0	0	0	0	48,579	20,916	27,663	0	0	0
Tennessee Valley Authority	0	0	0	0	101	0	48	53	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

11.

Table C-35. Federal obligations for basic research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	2,901,742	718,629	548,328	1,569,553	65,232	1,531,200	673,461	383,775	288,823	185,141
Departments:										
Department of Agriculture, total	41,638	0	40,116	1,522	0	4,303	4,077	221	0	5
Agricultural Research Service[1]	30,678	0	29,486	1,192	0	2,430	2,294	131	0	5
Cooperative State Research, Education, & Extension Service[2]	9,030	0	9,030	0	0	1,243	1,243	0	0	0
Forest Service	1,930	0	1,600	330	0	630	540	90	0	0
Department of Commerce, total	30,241	587	12,380	17,274	0	262	0	262	0	0
National Inst of Standards & Tech	30,241	587	12,380	17,274	0	262	0	262	0	0
Department of Defense, total	159,747	2,199	79,494	63,967	14,087	164,202	46,217	22,505	65,209	30,271
Department of the Army	31,834	0	11,485	16,185	4,164	17,589	7,893	2,778	0	6,918
Department of the Navy	52,732	0	28,626	15,066	9,040	101,321	16,573	5,650	55,745	23,353
Department of the Air Force	51,750	1,746	24,462	24,659	883	26,133	14,858	11,275	0	0
Defense Agencies, total	23,431	453	14,921	8,057	0	19,159	6,893	2,802	9,464	0
Ballistic Missile Defense Organization	1,400	0	491	909	0	15	15	0	0	0
Defense Advanced Research Projects Agency[3]	2,331	0	2,331	0	0	0	0	0	0	0
Washington Headquarters Services[4] [5] [6]	19,700	453	12,099	7,148	0	19,144	6,878	2,802	9,464	0
Department of Energy	1,184,952	0	142,359	1,042,525	68	207,119	88,275	54,896	8,242	55,706
Dept of Health & Human Svcs, total	101,668	0	90,340	11,328	0	19,745	0	0	0	19,745
National Institutes of Health[7]	101,668	0	90,340	11,328	0	19,745	0	0	0	19,745
Department of the Interior, total	500	0	500	0	0	44,591	0	44,591	0	0
Geological Survey[8]	0	0	0	0	0	44,591	0	44,591	0	0
National Park Service[9]	500	0	500	0	0	0	0	0	0	0
Department of Transportation, total	14	0	0	14	0	35	0	0	0	35
Federal Highway Administration	14	0	0	14	0	35	0	0	0	35
Department of the Treasury, total	45	0	22	23	0	0	0	0	0	0
Bureau of Engraving & Printing	45	0	22	23	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	22,124	10,317	1,440	0	10,367
National Aeronautics & Space Admin	883,127	550,302	42,409	264,211	26,205	634,623	382,351	169,008	35,388	47,876
National Science Foundation	462,286	130,125	140,002	167,287	24,872	428,418	142,043	85,627	179,612	21,136
Smithsonian Institution	37,445	35,416	627	1,402	0	5,675	78	5,225	372	0
Tennessee Valley Authority	79	0	79	0	0	103	103	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[5] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[6] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[8] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[9] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-36. Federal obligations for basic research in engineering, by agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, n.e.c.
Total, all agencies	1,606,633	261,112	70,655	57,887	52,906	193,569	119,906	463,858	386,740
Departments:									
Department of Agriculture, total	12,715	0	0	2,760	662	159	482	0	8,652
Agricultural Research Service[1]	3,373	0	0	2,160	382	153	262	0	416
Cooperative State Research, Education, & Extension Service[2]	5,096	0	0	0	0	0	0	0	5,096
Forest Service	4,246	0	0	600	280	6	220	0	3,140
Department of Commerce, total	4,898	0	0	818	1,040	151	934	1,396	559
National Inst of Standards & Tech	4,898	0	0	818	1,040	151	934	1,396	559
Department of Defense, total	499,625	27,477	12,587	5,795	10,282	145,041	84,698	112,757	100,988
Department of the Army	79,842	6,297	9,976	2,373	8,764	27,168	11,063	13,889	312
Department of the Navy	115,273	0	0	0	0	41,449	25,612	27,119	21,093
Department of the Air Force	104,370	12,293	2,611	0	0	25,853	14,791	13,731	35,091
Defense Agencies, total	200,140	8,887	0	3,422	1,518	50,571	33,232	58,018	44,492
Ballistic Missile Defense Organization	3,809	2,365	0	0	10	1,434	0	0	0
Defense Advanced Research Projects Agency[3]	48,748	0	0	0	0	6,408	195	27,027	15,118
Washington Headquarters Services[4] [5] [6]	147,583	6,522	0	3,422	1,508	42,729	33,037	30,991	29,374
Department of Energy	276,299	0	0	17,108	199	0	17,088	230,967	10,937
Dept of Health & Human Svcs, total	93,468	0	0	0	0	0	0	0	93,468
National Institutes of Health[7]	93,468	0	0	0	0	0	0	0	93,468
Department of Transportation, total	36,041	0	0	6	8,365	0	231	13	27,426
Federal Highway Administration	36,041	0	0	6	8,365	0	231	13	27,426
Other agencies:									
Environmental Protection Agency	15,283	0	0	337	0	0	0	0	14,946
National Aeronautics & Space Admin	336,556	233,635	58,068	2,502	169	6,666	10,217	15,360	9,939
National Science Foundation	331,705	0	0	28,518	32,189	41,552	6,256	103,365	119,825
Tennessee Valley Authority	43	0	0	43	0	0	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[5] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[6] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	621,963	159,428	360,748	101,787	229,955	3,504	29,689	1,117	11,137	184,508
Departments:										
Department of Agriculture, total	3,104	1,876	1,228	0	20,178	34	17,663	0	2,481	0
Agricultural Research Service[1]	1,449	221	1,228	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	13,612	0	11,253	0	2,359	0
Economic Research Service	0	0	0	0	5,295	0	5,295	0	0	0
Forest Service	406	406	0	0	1,271	34	1,115	0	122	0
Nat'l Agricultural Statistics Svc	1,249	1,249	0	0	0	0	0	0	0	0
Department of Commerce, total	1,716	689	1,027	0	0	0	0	0	0	0
Bureau of the Census	689	689	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	1,027	0	1,027	0	0	0	0	0	0	0
Department of Defense, total	134,574	48,147	66,817	19,610	0	0	0	0	0	0
Department of the Army	29,348	6,590	7,732	15,026	0	0	0	0	0	0
Department of the Navy	34,275	15,819	18,456	0	0	0	0	0	0	0
Department of the Air Force	24,835	17,531	2,720	4,584	0	0	0	0	0	0
Defense Agencies, total	46,116	8,207	37,909	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	23,710	0	23,710	0	0	0	0	0	0	0
Washington Headquarters Services[4] [5] [6]	22,406	8,207	14,199	0	0	0	0	0	0	0
Department of Education	0	0	0	0	2,933	0	0	0	0	2,933
Department of Energy	89,545	0	13,725	75,820	0	0	0	0	0	0
Dept of Health & Human Svcs, total	55,621	26,748	28,873	0	59,849	0	0	0	128	59,721
National Institutes of Health[7]	55,621	26,748	28,873	0	59,849	0	0	0	128	59,721
Department of Justice, total	0	0	0	0	9,275	0	300	1,000	7,135	840
Office of Justice Programs	0	0	0	0	9,275	0	300	1,000	7,135	840
Department of Labor, total	0	0	0	0	11,500	0	11,500	0	0	0
Bureau of Labor Statistics	0	0	0	0	11,500	0	11,500	0	0	0
Department of Transportation, total	329	17	237	75	3,175	0	0	0	0	3,175
Federal Highway Administration	329	17	237	75	367	0	0	0	0	367
Office of the Secretary	0	0	0	0	2,808	0	0	0	0	2,808

See explanatory information, if any, and SOURCE at end of table.

Table C-37. Federal obligations for basic research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Other agencies:										
Internat'l Development Cooperation Agency, total	0	0	0	0	115	0	0	115	0	0
Agency for Internat'l Dvlpmt[8]	0	0	0	0	115	0	0	115	0	0
National Aeronautics & Space Admin	23,157	775	17,990	4,392	406	0	0	0	260	146
National Science Foundation	313,917	81,176	230,851	1,890	88,858	0	226	2	648	87,982
Smithsonian Institution	0	0	0	0	33,666	3,470	0	0	485	29,711

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

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[8] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	13,802,717	4,839,023	3,160,341	423,447	3,267,567	863,986	944,339	119,370	107,259	77,385
Departments:										
Department of Agriculture, total	671,669	439,249	4,952	0	217,813	0	6,756	0	1,478	1,421
Agricultural Marketing Service	4,226	3,780	0	0	446	0	0	0	0	0
Agricultural Research Service[2]	256,568	242,644	0	0	10,935	0	1,484	0	127	1,378
Cooperative State Research, Education, & Extension Service[3]	213,736	8,704	4,952	0	194,949	0	4,630	0	501	0
Economic Research Service	47,655	44,937	0	0	2,718	0	0	0	0	0
Food Safety Inspection Service	1,645	1,645	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	434	214	0	0	220	0	0	0	0	0
Forest Service	143,000	133,055	0	0	8,440	0	612	0	850	43
Grain Inspection Packers & Stockyards Administration[5]	507	507	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,547	2,412	0	0	105	0	30	0	0	0
Rural Business-Cooperative Svc[6]	1,351	1,351	0	0	0	0	0	0	0	0
Department of Commerce, total	813,064	576,536	145,928	0	77,391	163	5,338	0	6,583	1,125
Bureau of the Census	1,600	1,600	0	0	0	0	0	0	0	0
Economic Development Admin	591	50	412	0	0	0	129	0	0	0
National Inst of Standards & Tech	318,154	163,902	144,071	0	7,325	163	1,595	0	0	1,098
Nat'l Oceanic & Atmospheric Admin	480,806	406,325	1,445	0	68,459	0	1,614	0	2,963	0
National Telecommunications & Information Administration	11,885	4,658	0	0	1,607	0	2,000	0	3,620	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	2,857,639	1,032,765	1,274,973	9,655	392,304	57,843	61,464	19,488	13	9,134
Department of the Army	475,303	286,988	140,847	346	34,318	672	7,995	574	13	3,550
Department of the Navy	516,813	236,700	232,257	625	39,278	1,141	4,378	1,925	0	509
Department of the Air Force	654,409	351,832	263,447	741	26,944	528	4,488	5,848	0	581
Defense Agencies, total	1,211,114	157,245	638,422	7,943	291,764	55,502	44,603	11,141	0	4,494
Ballistic Missile Defense Organization	87,205	13,681	58,295	0	4,040	8,408	290	1,171	0	1,320
Defense Advanced Research Projects Agency[7]	799,816	55,042	432,071	3,552	236,747	21,351	39,758	9,970	0	1,325
Defense Information Systems Agency	1,648	1,648	0	0	0	0	0	0	0	0
Defense Logistics Agency	7,950	7,950	0	0	0	0	0	0	0	0
Defense Special Weapons Agency[8]	214,811	52,600	134,257	4,391	7,157	12,030	2,532	0	0	1,844
Special Operations Command	25,567	14,658	10,909	0	0	0	0	0	0	0
Washington Headquarters Services[9] [10]	74,117	11,666	2,890	0	43,820	13,713	2,023	0	0	5
Department of Education	132,054	6,436	5,000	0	95,075	0	24,221	0	1,322	0
Department of Energy	1,432,497	168,297	142,215	341,501	77,621	602,316	30,535	66,799	2,755	458
Dept of Health & Human Svcs, total	4,041,256	1,084,867	216,222	42,544	2,040,697	7,566	575,444	7,714	52,441	13,761
Administration on Aging	171	171	0	0	0	0	0	0	0	0
Admin for Children & Families	12,567	872	0	0	9,337	0	2,195	0	163	0
Agcy for Hlth Care Policy & Rsch	115,999	24,382	34,411	0	35,995	0	21,204	0	0	7
Centers for Disease Control & Prevention	296,672	240,847	2,597	0	39,045	138	7,448	0	6,597	0
Food & Drug Administration	170,844	151,879	0	0	10,381	0	8,509	0	0	75
Health Care Financing Admin	52,685	50	26,520	0	5,881	0	14,586	0	5,336	312
Health Resources & Services Admin	10,063	1,490	0	0	5,913	0	2,660	0	0	0
National Institutes of Health[11]	3,373,287	661,225	150,865	42,544	1,932,429	7,428	517,370	7,714	40,345	13,367
Office of the Secretary, total	8,968	3,951	1,829	0	1,716	0	1,472	0	0	0
Office of the Asst Secretary, Planning & Evaluation	8,968	3,951	1,829	0	1,716	0	1,472	0	0	0

See explanatory information, if any, and SOURCE at end of table

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	11,166	8,749	711	0	818	0	888	0	0	0
Department of the Interior, total	486,036	423,987	7,588	20	42,955	127	497	0	9,612	1,250
Bureau of Reclamation	4,901	3,903	0	0	739	0	259	0	0	0
Geological Survey[12]	439,533	405,279	2,978	0	23,304	0	0	0	7,972	0
Minerals Management Service	21,856	5,259	3,480	20	9,895	127	185	0	1,640	1,250
National Park Service[13]	19,746	9,546	1,130	0	9,017	0	53	0	0	0
Department of Justice, total	19,482	3,048	1,137	0	3,350	0	5,003	0	6,944	0
Bureau of Prisons	3,094	1,850	0	0	0	0	0	0	1,244	0
Drug Enforcement Administration	45	45	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	211	40	0	0	0	0	171	0	0	0
Office of Justice Programs	16,132	1,113	1,137	0	3,350	0	4,832	0	5,700	0
Department of Labor, total	15,172	6,083	5,680	0	726	0	2,683	0	0	0
Bureau of Labor Statistics	1,800	1,800	0	0	0	0	0	0	0	0
Employment & Training Admin	2,622	1,052	0	0	661	0	909	0	0	0
Occupational Safety & Hlth Admin	6,602	1,298	5,304	0	0	0	0	0	0	0
Office of the Secretary	1,764	1,026	45	0	35	0	658	0	0	0
Pension Benefit Guaranty Corp	53	53	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,331	854	331	0	30	0	1,116	0	0	0
Department of State, total	924	253	671	0	0	0	0	0	0	0
Department of Transportation, total	336,702	103,197	146,722	431	35,758	2,000	21,354	5,958	20,211	1,071
Coast Guard	5,004	3,410	1,094	0	500	0	0	0	0	0
Federal Aviation Administration	130,597	48,133	58,213	0	15,961	0	2,332	5,958	0	0
Federal Highway Administration	135,446	21,108	72,114	431	10,522	2,000	13,014	0	15,211	1,046
Federal Railroad Administration	21,303	10,013	2,076	0	375	0	3,839	0	5,000	0
Federal Transit Administration	5,582	1,420	62	0	2,400	0	1,700	0	0	0
National Highway Traffic Safety Administration	33,163	16,295	10,374	0	6,000	0	469	0	0	25
Research & Special Programs Admin	5,607	2,818	2,789	0	0	0	0	0	0	0
Department of the Treasury, total	50,443	32,197	4,101	0	20	125	0	14,000	0	0
Bureau of Engraving & Printing	1,518	1,393	0	0	0	125	0	0	0	0
Internal Revenue Service	47,454	29,962	3,472	0	20	0	0	14,000	0	0
Office of Thrift Supervision	537	537	0	0	0	0	0	0	0	0
United States Customs Service	480	55	425	0	0	0	0	0	0	0
United States Secret Service[14]	454	250	204	0	0	0	0	0	0	0
Department of Veterans Affairs	222,801	222,010	0	0	791	0	0	0	0	0
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Environmental Protection Agency	329,100	167,853	87,231	0	53,688	0	17,580	0	1,252	1,496
Federal Communications Commission	2,801	2,801	0	0	0	0	0	0	0	0
Federal Trade Commission	505	505	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	203,000	30,000	9,000	0	17,000	0	121,000	0	0	26,000
Agency for Internat'l Dvlpmt[15]	203,000	30,000	9,000	0	17,000	0	121,000	0	0	26,000
Library of Congress	1,647	1,647	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	1,897,097	503,024	1,050,554	2,084	81,718	180,728	60,100	2,197	1,647	15,045
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	185,418	950	47,850	0	124,694	75	8,383	87	1,509	1,870
Nuclear Regulatory Commission	70,909	14,165	4,112	27,212	3,785	13,043	711	3,127	0	4,754
Social Security Administration[16]	11,528	1,852	5,139	0	663	0	2,382	0	1,492	0
Tennessee Valley Authority	4,796	4,796	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-38. Federal obligations for applied research, by agency and performer: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
US Arms Control & Disarmament Agcy	654	199	455	0	0	0	0	0	0	0
United States Information Agency	149	149	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	3,188	3,188	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-39. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	14,526,490	5,131,417	3,450,976	428,885	3,446,366	835,043	939,441	128,218	93,601	72,543
Departments:										
Department of Agriculture, total	717,498	453,320	6,177	0	249,858	0	5,963	0	805	1,375
Agricultural Marketing Service	4,191	4,191	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	261,101	247,563	0	0	11,677	0	559	0	127	1,175
Cooperative State Research, Education, & Extension Service[3]	250,055	10,895	6,077	0	227,791	0	4,794	0	498	0
Economic Research Service	49,799	47,799	0	0	2,000	0	0	0	0	0
Food Safety Inspection Service	2,700	2,700	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	500	230	0	0	270	0	0	0	0	0
Forest Service	144,800	135,780	100	0	7,960	0	580	0	180	200
Grain Inspection Packers & Stockyards Administration[5]	550	550	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,634	2,444	0	0	160	0	30	0	0	0
Rural Business-Cooperative Svc[6]	1,168	1,168	0	0	0	0	0	0	0	0
Department of Commerce, total	812,700	610,567	122,292	0	72,754	171	3,286	0	2,670	960
Bureau of the Census	2,240	2,240	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	400	0	0	0	100	0	0	0
National Inst of Standards & Tech	302,912	172,572	120,079	0	7,708	171	1,449	0	0	933
Nat'l Oceanic & Atmospheric Admin	496,433	425,167	1,813	0	65,046	0	1,737	0	2,670	0
National Telecommunications & Information Administration	10,537	10,537	0	0	0	0	0	0	0	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	2,867,929	1,123,389	1,229,548	8,555	356,646	52,913	51,963	31,402	10	13,503
Department of the Army	551,866	334,455	149,120	465	51,401	593	9,029	644	10	6,149
Department of the Navy	574,559	259,186	263,309	625	42,457	3,018	1,117	3,347	0	1,500
Department of the Air Force	651,477	359,576	246,275	549	29,945	3,691	6,179	5,161	0	101
Defense Agencies, total	1,090,027	170,172	570,844	6,916	232,843	45,611	35,638	22,250	0	5,753
Ballistic Missile Defense Organization	150,529	62,925	62,855	0	2,612	7,017	278	13,742	0	1,100
Defense Advanced Research Projects Agency[7]	682,527	46,970	377,009	3,031	192,525	18,220	33,928	8,508	0	2,336
Defense Information Systems Agency	1,508	1,508	0	0	0	0	0	0	0	0
Defense Logistics Agency	7,053	7,053	0	0	0	0	0	0	0	0
Defense Special Weapons Agency[8]	169,920	35,660	122,337	3,885	711	3,738	1,272	0	0	2,317
Special Operations Command	17,249	9,889	7,360	0	0	0	0	0	0	0
Washington Headquarters Services[9] [10]	61,241	6,167	1,283	0	36,995	16,636	160	0	0	0
Department of Education	143,949	6,379	4,492	0	105,819	0	25,640	0	1,619	0
Department of Energy	1,494,042	156,834	135,293	354,203	97,401	658,953	19,881	68,317	2,718	442
Dept of Health & Human Svcs, total	4,335,769	1,195,742	231,034	46,154	2,174,286	8,042	605,423	8,432	52,063	14,593
Administration on Aging	475	85	0	0	390	0	0	0	0	0
Admin for Children & Families	21,164	716	0	0	16,359	0	3,885	0	204	0
Agcy for Hlth Care Policy & Rsch	133,919	37,237	36,739	0	37,706	0	22,237	0	0	0
Centers for Disease Control & Prevention	345,748	287,104	4,400	0	39,045	138	7,448	0	7,613	0
Food & Drug Administration	170,322	151,322	0	0	10,425	0	8,500	0	0	75
Health Care Financing Admin	44,000	58	27,673	0	5,460	0	9,400	0	1,115	294
Health Resources & Services Admin	10,335	1,505	0	0	6,090	0	2,740	0	0	0
National Institutes of Health[11]	3,591,320	704,515	160,536	46,154	2,056,311	7,904	550,313	8,432	42,931	14,224
Office of the Secretary, total	18,486	13,200	1,686	0	2,500	0	900	0	200	0
Office of the Asst Secretary, Planning & Evaluation	18,486	13,200	1,686	0	2,500	0	900	0	200	0

See explanatory information, if any, and SOURCE at end of table.

Table C-39. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1997

[Dollars in thousands]

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	12,785	6,812	2,066	0	824	0	3,083	0	0	0
Department of the Interior, total	492,352	427,557	7,983	0	46,369	100	583	0	8,837	923
Bureau of Reclamation	5,731	4,585	0	0	800	0	346	0	0	0
Geological Survey[12]	442,494	407,486	3,230	0	24,313	0	0	0	7,465	0
Minerals Management Service	21,307	5,498	3,573	0	9,657	100	184	0	1,372	923
National Park Service[13]	22,820	9,988	1,180	0	11,599	0	53	0	0	0
Department of Justice, total	22,991	3,490	600	0	3,325	0	14,676	0	900	0
Bureau of Prisons	2,500	1,900	0	0	0	0	0	0	600	0
Drug Enforcement Administration	50	50	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	0	0	0	0	360	0	0	0
Office of Justice Programs	20,041	1,500	600	0	3,325	0	14,316	0	300	0
Department of Labor, total	10,765	5,254	4,766	0	127	0	618	0	0	0
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0
Employment & Training Admin	1,943	563	660	0	117	0	603	0	0	0
Occupational Safety & Hlth Admin	3,895	1,336	2,559	0	0	0	0	0	0	0
Office of the Secretary	1,176	1,126	25	0	10	0	15	0	0	0
Pension Benefit Guaranty Corp	54	54	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,397	875	1,522	0	0	0	0	0	0	0
Department of State, total	833	333	485	0	0	15	0	0	0	0
Department of Transportation, total	411,980	108,421	205,306	0	49,909	0	22,877	5,590	18,879	998
Coast Guard	6,240	4,253	1,587	0	400	0	0	0	0	0
Federal Aviation Administration	163,475	46,455	94,930	0	16,500	0	0	5,590	0	0
Federal Highway Administration	170,627	25,068	86,892	0	23,190	0	16,468	0	18,079	930
Federal Railroad Administration	19,022	8,591	4,735	0	1,419	0	4,109	0	100	68
Federal Transit Administration	5,682	882	0	0	2,400	0	1,700	0	700	0
National Highway Traffic Safety Administration	36,539	18,221	11,718	0	6,000	0	600	0	0	0
Research & Special Programs Admin	10,395	4,951	5,444	0	0	0	0	0	0	0
Department of the Treasury, total	48,165	33,869	4,211	0	0	85	0	10,000	0	0
Bureau of Engraving & Printing	1,561	1,476	0	0	0	85	0	0	0	0
Internal Revenue Service	45,094	31,533	3,561	0	0	0	0	10,000	0	0
Office of Thrift Supervision	574	574	0	0	0	0	0	0	0	0
United States Customs Service	380	50	330	0	0	0	0	0	0	0
United States Secret Service[14]	556	236	320	0	0	0	0	0	0	0
Department of Veterans Affairs	240,137	239,285	0	0	852	0	0	0	0	0
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Environmental Protection Agency	362,000	184,633	95,951	0	59,055	0	19,338	0	1,377	1,646
Federal Communications Commission	3,378	3,378	0	0	0	0	0	0	0	0
Federal Trade Commission	505	505	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	152,000	17,000	9,000	0	11,000	0	97,000	0	0	18,000
Agency for Internat'l Dvlpmt[15]	152,000	17,000	9,000	0	11,000	0	97,000	0	0	18,000
Library of Congress	1,557	1,557	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	2,094,511	523,627	1,302,701	2,118	81,718	102,770	62,562	2,237	1,642	15,136
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	189,573	787	50,124	0	129,332	75	5,662	87	1,464	2,042
Nuclear Regulatory Commission	57,041	13,044	4,227	17,855	4,222	11,919	696	2,153	0	2,925
Social Security Administration[16]	38,300	1,379	33,945	0	2,169	0	190	0	617	0
Tennessee Valley Authority	7,580	7,580	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-39. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1997

[Dollars in thousands]

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Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	Foreign
US Arms Control & Disarmament Agcy	1,200	525	675	0	0	0	0	0	0	0
United States Information Agency	136	136	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	5,794	5,794	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

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[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

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[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	15,013,891	5,299,744	3,670,181	439,253	3,452,635	857,620	1,014,793	120,557	87,675	71,433
Departments:										
Department of Agriculture, total	693,376	460,449	6,179	0	222,572	0	1,994	0	807	1,375
Agricultural Marketing Service	4,161	4,161	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	264,800	252,326	0	0	10,613	0	559	0	127	1,175
Cooperative State Research, Education, & Extension Service[3]	219,598	11,625	6,079	0	200,569	0	825	0	500	0
Economic Research Service	51,879	48,879	0	0	3,000	0	0	0	0	0
Food Safety Inspection Service	3,200	3,200	0	0	0	0	0	0	0	0
Foreign Agricultural Service[4]	500	230	0	0	270	0	0	0	0	0
Forest Service	144,800	135,780	100	0	7,960	0	580	0	180	200
Grain Inspection Packers & Stockyards Administration[5]	557	557	0	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,665	2,475	0	0	160	0	30	0	0	0
Rural Business-Cooperative Svc[6]	1,216	1,216	0	0	0	0	0	0	0	0
Department of Commerce, total	812,801	613,975	126,111	0	65,317	171	3,317	0	2,920	990
Bureau of the Census	2,240	2,240	0	0	0	0	0	0	0	0
Economic Development Admin	550	50	400	0	0	0	100	0	0	0
National Inst of Standards & Tech	304,606	169,991	124,289	0	7,712	171	1,480	0	0	963
Nat'l Oceanic & Atmospheric Admin	491,748	428,064	1,422	0	57,605	0	1,737	0	2,920	0
National Telecommunications & Information Administration	13,629	13,629	0	0	0	0	0	0	0	0
Office of the Secretary	28	1	0	0	0	0	0	0	0	27
Department of Defense, total	2,791,120	1,002,897	1,293,111	11,340	334,354	59,502	57,435	25,351	10	7,120
Department of the Army	502,166	316,032	134,814	5,407	31,400	308	11,789	149	10	2,257
Department of the Navy	492,946	246,473	201,279	479	36,410	2,395	958	3,515	0	1,437
Department of the Air Force	598,802	285,617	276,086	484	26,283	189	2,936	7,137	0	70
Defense Agencies, total	1,197,206	154,775	680,932	4,970	240,261	56,610	41,752	14,550	0	3,356
Ballistic Missile Defense Organization	109,170	22,148	68,091	0	4,535	7,930	356	4,610	0	1,500
Defense Advanced Research Projects Agency[7]	797,446	54,879	462,415	3,541	204,658	21,288	39,640	9,940	0	1,085
Defense Information Systems Agency	1,913	1,913	0	0	0	0	0	0	0	0
Defense Logistics Agency	8,285	8,285	0	0	0	0	0	0	0	0
Defense Special Weapons Agency[8]	207,194	52,016	142,728	1,429	702	8,081	1,467	0	0	771
Special Operations Command	15,017	8,609	6,408	0	0	0	0	0	0	0
Washington Headquarters Services[9][10]	58,181	6,925	1,290	0	30,366	19,311	289	0	0	0
Department of Education	163,866	7,152	9,238	0	114,675	0	31,240	0	1,561	0
Department of Energy	1,580,634	262,121	124,416	364,605	68,591	652,637	28,065	77,172	2,587	440
Dept of Health & Human Svcs, total	4,535,880	1,291,830	236,763	46,549	2,246,350	8,265	627,986	8,670	54,572	14,895
Administration on Aging	85	85	0	0	0	0	0	0	0	0
Admin for Children & Families	31,273	763	0	0	24,408	0	5,797	0	305	0
Agcy for Hlth Care Policy & Rsch	139,238	41,616	37,096	0	38,073	0	22,453	0	0	0
Centers for Disease Control & Prevention	358,547	298,553	4,400	0	39,045	138	7,448	0	8,963	0
Food & Drug Administration	181,625	152,152	0	0	16,288	0	13,185	0	0	0
Health Care Financing Admin	45,000	50	28,313	0	5,590	0	9,616	0	1,161	270
Health Resources & Services Admin	9,350	520	0	0	6,090	0	2,740	0	0	0
National Institutes of Health[11]	3,761,762	794,377	165,068	46,549	2,114,356	8,127	565,847	8,670	44,143	14,625
Office of the Secretary, total	9,000	3,714	1,886	0	2,500	0	900	0	0	0
Office of the Asst Secretary, Planning & Evaluation	9,000	3,714	1,886	0	2,500	0	900	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Dept of Housing & Urban Dvlpmt	14,053	8,320	2,205	0	811	0	2,717	0	0	0
Department of the Interior, total	502,733	435,810	9,862	0	47,088	100	615	0	8,340	918
Bureau of Reclamation	5,887	4,710	0	0	800	0	377	0	0	0
Geological Survey[12]	448,543	415,148	4,824	0	21,794	0	0	0	6,777	0
Minerals Management Service	22,891	5,791	3,846	0	10,488	100	185	0	1,563	918
National Park Service[13]	25,412	10,161	1,192	0	14,006	0	53	0	0	0
Department of Justice, total	17,993	2,500	500	0	6,000	0	4,868	0	4,125	0
Bureau of Prisons	2,600	1,900	0	0	0	0	0	0	700	0
Drug Enforcement Administration	60	60	0	0	0	0	0	0	0	0
Immigration & Naturalization Svc	400	40	0	0	0	0	360	0	0	0
Office of Justice Programs	14,933	500	500	0	6,000	0	4,508	0	3,425	0
Department of Labor, total	10,915	5,264	4,869	0	139	0	643	0	0	0
Bureau of Labor Statistics	1,300	1,300	0	0	0	0	0	0	0	0
Employment & Training Admin	1,990	577	677	0	119	0	617	0	0	0
Occupational Safety & Hlth Admin	4,055	1,385	2,670	0	0	0	0	0	0	0
Office of the Secretary	1,096	1,050	0	0	20	0	26	0	0	0
Pension Benefit Guaranty Corp	55	55	0	0	0	0	0	0	0	0
Pension & Welfare Benefits Admin	2,419	897	1,522	0	0	0	0	0	0	0
Department of State, total	833	333	485	0	0	15	0	0	0	0
Department of Transportation, total	407,911	124,159	197,683	0	44,310	0	27,739	5,500	8,155	365
Coast Guard	4,919	3,353	1,266	0	300	0	0	0	0	0
Federal Aviation Administration	130,980	48,512	60,968	0	16,000	0	0	5,500	0	0
Federal Highway Administration	189,133	35,960	113,488	0	13,985	0	19,054	0	6,306	340
Federal Railroad Administration	20,138	9,468	5,035	0	625	0	4,985	0	0	25
Federal Transit Administration	14,987	2,138	600	0	7,400	0	3,000	0	1,849	0
National Highway Traffic Safety Administration	42,021	21,400	13,921	0	6,000	0	700	0	0	0
Research & Special Programs Admin	5,733	3,328	2,405	0	0	0	0	0	0	0
Department of the Treasury, total	41,058	34,141	4,421	0	0	2,496	0	0	0	0
Bureau of Engraving & Printing	1,784	1,688	0	0	0	96	0	0	0	0
Internal Revenue Service	37,494	31,533	3,561	0	0	2,400	0	0	0	0
Office of Thrift Supervision	583	583	0	0	0	0	0	0	0	0
United States Customs Service	600	60	540	0	0	0	0	0	0	0
United States Secret Service[14]	597	277	320	0	0	0	0	0	0	0
Department of Veterans Affairs	209,061	208,319	0	0	742	0	0	0	0	0
Other agencies:										
Appalachian Regional Commission	900	100	100	0	700	0	0	0	0	0
Consumer Product Safety Commission	206	6	200	0	0	0	0	0	0	0
Environmental Protection Agency	403,200	205,647	106,871	0	65,776	0	21,539	0	1,534	1,833
Federal Communications Commission	3,198	3,198	0	0	0	0	0	0	0	0
Federal Trade Commission	509	509	0	0	0	0	0	0	0	0
Internat'l Development Cooperation Agency, total	202,000	22,800	11,500	0	15,000	0	129,400	0	0	23,300
Agency for Internat'l Dvlpmt[15]	202,000	22,800	11,500	0	15,000	0	129,400	0	0	23,300
Library of Congress	1,749	1,749	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	2,318,974	579,743	1,441,548	2,384	81,718	124,397	69,266	2,377	1,679	15,862
National Archives & Records Admin	120	120	0	0	0	0	0	0	0	0
National Science Foundation	200,080	800	56,239	0	132,772	75	7,159	87	863	2,085
Nuclear Regulatory Commission	53,884	13,536	8,146	14,375	3,470	9,962	745	1,400	0	2,250
Social Security Administration[16]	37,070	5,055	29,178	0	2,250	0	65	0	522	0
Tennessee Valley Authority	2,700	2,700	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-40. Preliminary Federal obligations for applied research, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	Foreign
US Arms Control & Disarmament Agcy	987	431	556	0	0	0	0	0	0	0
United States Information Agency	100	100	0	0	0	0	0	0	0	0
US Internat'l Trade Commission	5,980	5,980	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[8] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[9] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[10] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-41. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	13,802,717	14,526,490	15,013,891
Life sciences, total	5,188,675	5,489,839	5,614,644
Biological (excluding environmental)	1,899,133	NA	NA
Environmental biology	522,696	NA	NA
Agricultural	288,136	NA	NA
Medical	2,232,592	NA	NA
Life sciences, n.e.c	246,118	NA	NA
Psychology, total	231,458	246,245	242,933
Biological aspects	29,656	NA	NA
Social aspects	72,113	NA	NA
Psychological sciences, n.e.c.	129,689	NA	NA
Physical sciences, total	1,062,684	1,162,735	1,137,610
Astronomy	20,165	NA	NA
Chemistry	330,501	NA	NA
Physics	446,812	NA	NA
Physical sciences, n.e.c.	265,206	NA	NA
Environmental sciences, total	1,465,833	1,495,758	1,621,335
Atmospheric	415,212	NA	NA
Geological	393,948	NA	NA
Oceanography	264,996	NA	NA
Environmental sciences, n.e.c.	391,677	NA	NA
Mathematics & computer sciences, total	932,149	942,190	1,198,832
Mathematics	91,833	NA	NA
Computer sciences	742,181	NA	NA
Mathematics & computer sciences, n.e.c.	98,135	NA	NA
Engineering, total	4,072,979	4,226,441	4,217,921
Aeronautical	987,642	NA	NA
Astronautical	454,748	NA	NA
Chemical	155,705	NA	NA
Civil	247,240	NA	NA
Electrical	468,268	NA	NA
Mechanical	181,039	NA	NA
Metallurgy & materials	486,310	NA	NA
Engineering, n.e.c.	1,092,027	NA	NA
Social sciences, total	444,228	511,556	534,484
Anthropology	5,005	NA	NA
Economics	153,076	NA	NA
Political science	10,517	NA	NA
Sociology	27,656	NA	NA
Social sciences, n.e.c.	247,974	NA	NA
Other sciences, n.e.c.	404,711	451,726	446,132

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	13,802,717	5,188,675	231,458	1,062,684	1,465,833	932,149	4,072,979	444,228	404,711
Departments:									
Department of Agriculture, total	671,669	453,182	410	49,937	8,859	13,258	50,040	92,909	3,074
Agricultural Marketing Service	4,226	4,226	0	0	0	0	0	0	0
Agricultural Research Service[1]	256,568	215,290	0	30,842	2,226	1,211	6,999	0	0
Cooperative State Research, Education, & Extension Service[2]	213,736	148,280	0	13,715	1,733	0	17,315	32,693	0
Economic Research Service	47,655	0	0	0	0	0	0	47,655	0
Food Safety Inspection Service	1,645	1,645	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	434	434	0	0	0	0	0	0	0
Forest Service	143,000	82,800	410	5,380	4,900	9,500	25,726	11,210	3,074
Grain Inspection Packers & Stockyards Administration[4]	507	507	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,547	0	0	0	0	2,547	0	0	0
Rural Business-Cooperative Svc[5]	1,351	0	0	0	0	0	0	1,351	0
Department of Commerce, total	813,064	160,883	139	78,415	258,424	75,625	181,557	19,124	38,897
Bureau of the Census	1,600	0	139	0	0	1,008	0	414	39
Economic Development Admin	591	0	0	0	0	0	0	591	0
National Inst of Standards & Tech	318,154	43,583	0	57,275	281	49,313	167,486	216	0
Nat'l Oceanic & Atmospheric Admin	480,806	117,300	0	21,140	258,143	18,077	9,413	17,903	38,830
National Telecommunications & Information Administration	11,885	0	0	0	0	7,227	4,658	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	2,857,639	175,932	43,130	206,489	239,444	481,844	1,593,543	2,387	114,870
Department of the Army	475,303	69,260	7,497	29,155	37,320	52,436	275,822	2,387	1,426
Department of the Navy	516,813	28,498	9,399	2,250	148,891	11,395	316,380	0	0
Department of the Air Force	654,409	27,202	18,284	95,274	12,172	57,595	439,880	0	4,002
Defense Agencies, total	1,211,114	50,972	7,950	79,810	41,061	360,418	561,461	0	109,442
Ballistic Missile Defense Organization	87,205	0	0	12,078	872	16,728	57,527	0	0
Defense Advanced Research Projects Agency[6]	799,816	23,884	0	2,248	27,514	337,264	390,741	0	18,165
Defense Information Systems Agency	1,648	0	0	0	0	0	0	0	1,648
Defense Logistics Agency	7,950	0	7,950	0	0	0	0	0	0
Defense Special Weapons Agency[7]	214,811	3,656	0	46,939	6,914	1,145	67,171	0	88,986
Special Operations Command	25,567	779	0	0	0	0	24,145	0	643
Washington Headquarters Services[8] [9]	74,117	22,653	0	18,545	5,761	5,281	21,877	0	0
Department of Education	132,054	10,659	3,256	0	0	814	6,511	110,814	0
Department of Energy	1,432,497	73,892	0	496,422	223,614	199,140	417,723	0	21,706
Dept of Health & Human Svcs, total	4,041,256	3,510,478	126,760	52,733	10,241	39,013	48,480	74,868	178,683
Administration on Aging	171	0	0	0	0	0	0	171	0
Admin for Children & Families	12,567	0	0	0	0	0	0	12,567	0
Agcy for Hlth Care Policy & Rsch	115,999	43,977	1,024	0	0	10,164	0	22,120	38,714
Centers for Disease Control & Prevention	296,672	296,672	0	0	0	0	0	0	0
Food & Drug Administration	170,844	170,844	0	0	0	0	0	0	0
Health Care Financing Admin	52,685	52,685	0	0	0	0	0	0	0
Health Resources & Services Admin	10,063	10,063	0	0	0	0	0	0	0
National Institutes of Health[10]	3,373,287	2,936,237	125,736	52,733	10,241	28,849	48,480	31,042	139,969
Office of the Secretary, total	8,968	0	0	0	0	0	0	8,968	0
Office of the Asst Secretary, Planning & Evaluation	8,968	0	0	0	0	0	0	8,968	0

See explanatory information, if any, and SOURCE at end of table.

Table C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Life sciences	Psy-chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	11,166	0	0	0	3	79	373	10,208	503
Department of the Interior, total	486,036	122,055	0	40,658	269,709	18,319	21,409	13,855	31
Bureau of Reclamation	4,901	0	0	0	0	0	4,901	0	0
Geological Survey[11]	439,533	119,239	0	39,833	251,487	17,037	11,618	319	0
Minerals Management Service	21,856	0	0	494	15,193	1,085	3,099	1,985	0
National Park Service[12]	19,746	2,816	0	331	3,029	197	1,791	11,551	31
Department of Justice, total	19,482	0	875	1,000	0	0	211	15,339	2,057
Bureau of Prisons	3,094	0	475	0	0	0	0	2,619	0
Drug Enforcement Administration	45	0	0	0	0	0	0	0	45
Immigration & Naturalization Svc	211	0	0	0	0	0	211	0	0
Office of Justice Programs	16,132	0	400	1,000	0	0	0	12,720	2,012
Department of Labor, total	15,172	0	0	0	0	0	0	15,172	0
Bureau of Labor Statistics	1,800	0	0	0	0	0	0	1,800	0
Employment & Training Admin	2,622	0	0	0	0	0	0	2,622	0
Occupational Safety & Hlth Admin	6,602	0	0	0	0	0	0	6,602	0
Office of the Secretary	1,764	0	0	0	0	0	0	1,764	0
Pension Benefit Guaranty Corp	53	0	0	0	0	0	0	53	0
Pension & Welfare Benefits Admin	2,331	0	0	0	0	0	0	2,331	0
Department of State, total	924	0	0	0	0	0	0	924	0
Department of Transportation, total	336,702	7,354	26,378	31,605	7,207	17,826	208,795	11,355	26,182
Coast Guard	5,004	0	629	0	630	1,253	2,492	0	0
Federal Aviation Administration	130,597	2,498	22,987	29,058	5,726	8,859	49,531	0	11,938
Federal Highway Administration	135,446	1,939	2,762	2,547	851	2,045	105,600	5,458	14,244
Federal Railroad Administration	21,303	0	0	0	0	330	20,973	0	0
Federal Transit Administration	5,582	0	0	0	0	946	4,208	428	0
National Highway Traffic Safety Administration	33,163	2,917	0	0	0	3,427	21,750	5,069	0
Research & Special Programs Admin	5,607	0	0	0	0	966	4,241	400	0
Department of the Treasury, total	50,443	152	302	1,846	0	14,150	2	33,991	0
Bureau of Engraving & Printing	1,518	0	0	1,516	0	0	2	0	0
Internal Revenue Service	47,454	0	0	0	0	14,000	0	33,454	0
Office of Thrift Supervision	537	0	0	0	0	0	0	537	0
United States Customs Service	480	0	0	330	0	150	0	0	0
United States Secret Service[13]	454	152	302	0	0	0	0	0	0
Department of Veterans Affairs	222,801	209,551	13,119	0	0	0	131	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Environmental Protection Agency	329,100	90,979	0	0	140,837	0	97,284	0	0
Federal Communications Commission	2,801	0	0	85	0	108	1,509	1,099	0
Federal Trade Commission	505	0	0	0	0	0	0	505	0
Internat'l Development Cooperation Agency, total	203,000	188,000	0	0	0	0	0	13,400	1,600
Agency for Internat'l Dvlpmt[14]	203,000	188,000	0	0	0	0	0	13,400	1,600
Library of Congress	1,647	0	0	0	0	0	0	0	1,647
National Aeronautics & Space Admin	1,897,097	172,391	14,584	86,927	301,600	52,085	1,263,743	0	5,767
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	185,418	11,396	2,505	15,125	4,641	19,888	109,753	12,446	9,664
Nuclear Regulatory Commission	70,909	0	0	0	0	0	70,909	0	0
Social Security Administration[15]	11,528	0	0	0	0	0	0	11,528	0
Tennessee Valley Authority	4,796	1,771	0	914	1,254	0	857	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-42. Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	654	0	0	408	0	0	0	216	30
United States Information Agency	149	0	0	0	0	0	149	0	0
US Internat'l Trade Commission	3,188	0	0	0	0	0	0	3,188	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[15] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	14,526,490	5,489,839	246,245	1,162,735	1,495,758	942,190	4,226,441	511,556	451,726
Departments:									
Department of Agriculture, total	717,498	493,232	416	52,124	8,725	12,737	52,189	94,947	3,128
Agricultural Marketing Service	4,191	4,191	0	0	0	0	0	0	0
Agricultural Research Service[1]	261,101	221,159	0	31,141	2,043	294	6,464	0	0
Cooperative State Research, Education, & Extension Service[2]	250,055	180,357	0	15,577	1,722	0	19,676	32,723	0
Economic Research Service	49,799	0	0	0	0	0	0	49,799	0
Food Safety Inspection Service	2,700	2,700	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	500	500	0	0	0	0	0	0	0
Forest Service	144,800	83,775	416	5,406	4,960	9,809	26,049	11,257	3,128
Grain Inspection Packers & Stockyards Administration[4]	550	550	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,634	0	0	0	0	2,634	0	0	0
Rural Business-Cooperative Svc[5]	1,168	0	0	0	0	0	0	1,168	0
Department of Commerce, total	812,700	163,203	195	76,503	263,722	74,003	173,674	20,257	41,143
Bureau of the Census	2,240	0	195	0	0	1,411	0	580	54
Economic Development Admin	550	0	0	0	0	0	0	550	0
National Inst of Standards & Tech	302,912	41,495	0	54,531	268	46,951	159,461	206	0
Nat'l Oceanic & Atmospheric Admin	496,433	121,708	0	21,972	263,454	19,091	10,226	18,921	41,061
National Telecommunications & Information Administration	10,537	0	0	0	0	6,550	3,987	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	2,867,929	227,802	46,059	214,356	218,849	480,379	1,567,608	491	112,385
Department of the Army	551,866	117,013	10,052	35,840	41,788	57,550	280,100	491	9,032
Department of the Navy	574,559	32,314	10,658	2,551	160,568	12,785	355,683	0	0
Department of the Air Force	651,477	28,172	18,296	92,936	11,494	55,630	441,602	0	3,347
Defense Agencies, total	1,090,027	50,303	7,053	83,029	4,999	354,414	490,223	0	100,006
Ballistic Missile Defense Organization	150,529	0	0	23,549	835	24,955	101,190	0	0
Defense Advanced Research Projects Agency[6]	682,527	21,304	0	7,813	607	325,426	318,533	0	8,844
Defense Information Systems Agency	1,508	0	0	0	0	0	0	0	1,508
Defense Logistics Agency	7,053	0	7,053	0	0	0	0	0	0
Defense Special Weapons Agency[7]	169,920	3,042	0	42,580	1,338	1,999	34,430	0	86,531
Special Operations Command	17,249	526	0	0	0	0	16,290	0	433
Washington Headquarters Services[8] [9]	61,241	25,431	0	9,087	2,219	2,034	19,780	0	2,690
Department of Education	143,949	10,954	3,536	481	0	1,003	7,180	120,592	203
Department of Energy	1,494,042	63,019	0	543,348	187,606	214,544	460,557	0	24,968
Dept of Health & Human Svcs, total	4,335,769	3,738,746	134,564	56,025	10,774	41,161	51,715	97,087	205,697
Administration on Aging	475	0	0	0	0	0	0	475	0
Admin for Children & Families	21,164	0	0	0	0	0	0	21,164	0
Agcy for Hlth Care Policy & Rsch	133,919	46,407	967	0	0	10,635	0	23,204	52,706
Centers for Disease Control & Prevention	345,748	345,748	0	0	0	0	0	0	0
Food & Drug Administration	170,322	170,322	0	0	0	0	0	0	0
Health Care Financing Admin	44,000	44,000	0	0	0	0	0	0	0
Health Resources & Services Admin	10,335	10,335	0	0	0	0	0	0	0
National Institutes of Health[10]	3,591,320	3,121,934	133,597	56,025	10,774	30,526	51,715	33,758	152,991
Office of the Secretary, total	18,486	0	0	0	0	0	0	18,486	0
Office of the Asst Secretary, Planning & Evaluation	18,486	0	0	0	0	0	0	18,486	0

See explanatory information, if any, and SOURCE at end of table.

Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	12,785	0	0	0	46	179	159	11,437	964
Department of the Interior, total	492,352	122,722	0	40,518	273,131	19,162	22,849	13,939	31
Bureau of Reclamation	5,731	0	0	0	0	0	5,731	0	0
Geological Survey[11]	442,494	119,846	0	40,064	253,048	17,427	11,763	346	0
Minerals Management Service	21,307	0	0	123	15,054	988	3,564	1,578	0
National Park Service[12]	22,820	2,876	0	331	5,029	747	1,791	12,015	31
Department of Justice, total	22,991	0	475	600	0	0	400	18,591	2,925
Bureau of Prisons	2,500	0	475	0	0	0	0	2,025	0
Drug Enforcement Administration	50	0	0	0	0	0	0	0	50
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	20,041	0	0	600	0	0	0	16,566	2,875
Department of Labor, total	10,765	0	0	0	0	0	0	10,765	0
Bureau of Labor Statistics	1,300	0	0	0	0	0	0	1,300	0
Employment & Training Admin	1,943	0	0	0	0	0	0	1,943	0
Occupational Safety & Hlth Admin	3,895	0	0	0	0	0	0	3,895	0
Office of the Secretary	1,176	0	0	0	0	0	0	1,176	0
Pension Benefit Guaranty Corp	54	0	0	0	0	0	0	54	0
Pension & Welfare Benefits Admin	2,397	0	0	0	0	0	0	2,397	0
Department of State, total	833	0	0	0	0	0	0	833	0
Department of Transportation, total	411,980	8,909	29,282	45,506	9,046	15,008	250,848	11,542	41,839
Coast Guard	6,240	0	734	0	746	1,574	3,186	0	0
Federal Aviation Administration	163,475	4,000	24,543	45,155	4,407	2,835	56,515	0	26,020
Federal Highway Administration	170,627	1,616	4,005	115	3,275	3,238	138,106	4,453	15,819
Federal Railroad Administration	19,022	0	0	0	0	1,314	17,708	0	0
Federal Transit Administration	5,682	0	0	0	118	829	3,788	947	0
National Highway Traffic Safety Administration	36,539	3,293	0	0	0	3,654	23,750	5,842	0
Research & Special Programs Admin	10,395	0	0	236	500	1,564	7,795	300	0
Department of the Treasury, total	48,165	160	396	1,794	0	10,120	27	35,668	0
Bureau of Engraving & Printing	1,561	0	0	1,534	0	0	27	0	0
Internal Revenue Service	45,094	0	0	0	0	10,000	0	35,094	0
Office of Thrift Supervision	574	0	0	0	0	0	0	574	0
United States Customs Service	380	0	0	260	0	120	0	0	0
United States Secret Service[13]	556	160	396	0	0	0	0	0	0
Department of Veterans Affairs	240,137	225,855	14,140	0	0	0	142	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Environmental Protection Agency	362,000	100,075	0	0	154,919	0	107,006	0	0
Federal Communications Commission	3,378	0	0	85	0	112	1,536	1,645	0
Federal Trade Commission	505	0	0	0	0	0	0	505	0
Internat'l Development Cooperation Agency, total	152,000	137,000	0	0	0	0	0	13,000	2,000
Agency for Internat'l Dvlpmt[14]	152,000	137,000	0	0	0	0	0	13,000	2,000
Library of Congress	1,557	0	0	0	0	0	0	0	1,557
National Aeronautics & Space Admin	2,094,511	183,055	15,517	129,453	346,438	56,081	1,357,138	0	6,829
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	189,573	10,871	1,665	663	20,172	17,701	115,457	15,137	7,907
Nuclear Regulatory Commission	57,041	0	0	0	0	0	57,041	0	0
Social Security Administration[15]	38,300	0	0	0	0	0	0	38,300	0
Tennessee Valley Authority	7,580	4,176	0	781	1,904	0	719	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-43. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	1,200	60	0	378	426	0	60	126	150
United States Information Agency	136	0	0	0	0	0	136	0	0
US Internat'l Trade Commission	5,794	0	0	0	0	0	0	5,794	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

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[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

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NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	15,013,891	5,614,644	242,933	1,137,610	1,621,335	1,198,832	4,217,921	534,484	446,132
Departments									
Department of Agriculture, total	693,376	478,248	416	50,480	8,329	12,797	47,764	92,214	3,128
Agricultural Marketing Service	4,161	4,161	0	0	0	0	0	0	0
Agricultural Research Service[1]	264,800	224,495	0	31,417	2,042	323	6,523	0	0
Cooperative State Research, Education, & Extension Service[2]	219,598	161,560	0	13,657	1,327	0	15,192	27,862	0
Economic Research Service	51,879	0	0	0	0	0	0	51,879	0
Food Safety Inspection Service	3,200	3,200	0	0	0	0	0	0	0
Foreign Agricultural Service[3]	500	500	0	0	0	0	0	0	0
Forest Service	144,800	83,775	416	5,406	4,960	9,809	26,049	11,257	3,128
Grain Inspection Packers & Stockyards Administration[4]	557	557	0	0	0	0	0	0	0
Nat'l Agricultural Statistics Svc	2,665	0	0	0	0	2,665	0	0	0
Rural Business-Cooperative Svc[5]	1,216	0	0	0	0	0	0	1,216	0
Department of Commerce, total	812,801	157,397	195	77,664	267,933	77,303	173,076	19,100	40,133
Bureau of the Census	2,240	0	195	0	0	1,411	0	580	54
Economic Development Admin	550	0	0	0	0	0	0	550	0
National Inst of Standards & Tech	304,606	41,727	0	54,836	269	47,214	160,353	207	0
Nat'l Oceanic & Atmospheric Admin	491,748	115,670	0	22,828	267,664	18,853	8,919	17,763	40,051
National Telecommunications & Information Administration	13,629	0	0	0	0	9,825	3,804	0	0
Office of the Secretary	28	0	0	0	0	0	0	0	28
Department of Defense, total	2,791,120	166,645	40,514	223,259	192,928	614,150	1,457,541	463	95,620
Department of the Army	502,166	81,769	8,792	22,177	36,450	52,090	297,064	463	3,361
Department of the Navy	492,946	27,308	9,007	2,156	142,631	10,901	300,943	0	0
Department of the Air Force	598,802	23,261	14,430	94,742	8,368	55,249	400,750	0	2,002
Defense Agencies, total	1,197,206	34,307	8,285	104,184	5,479	495,910	458,784	0	90,257
Ballistic Missile Defense Organization	109,170	0	0	25,230	1,068	24,945	57,927	0	0
Defense Advanced Research Projects Agency[6]	797,446	7,952	0	9,331	0	466,386	311,975	0	1,802
Defense Information Systems Agency	1,913	0	0	0	0	0	0	0	1,913
Defense Logistics Agency	8,285	0	8,285	0	0	0	0	0	0
Defense Special Weapons Agency[7]	207,194	3,121	0	62,186	1,814	2,199	51,709	0	86,165
Special Operations Command	15,017	458	0	0	0	0	14,182	0	377
Washington Headquarters Services[8] [9]	58,181	22,776	0	7,437	2,597	2,380	22,991	0	0
Department of Education	163,866	11,088	3,567	451	0	1,006	7,231	140,328	195
Department of Energy	1,580,634	48,933	0	423,346	274,775	329,320	487,931	0	16,329
Dept of Health & Human Svcs, total	4,535,880	3,911,481	140,914	58,683	11,285	42,713	54,169	99,148	217,487
Administration on Aging	85	0	0	0	0	0	0	85	0
Admin for Children & Families	31,273	0	0	0	0	0	0	31,273	0
Agcy for Hlth Care Policy & Rsch	139,238	46,859	976	0	0	10,738	0	23,429	57,236
Centers for Disease Control & Prevention	358,547	358,547	0	0	0	0	0	0	0
Food & Drug Administration	181,625	181,625	0	0	0	0	0	0	0
Health Care Financing Admin	45,000	45,000	0	0	0	0	0	0	0
Health Resources & Services Admin	9,350	9,350	0	0	0	0	0	0	0
National Institutes of Health[10]	3,761,762	3,270,100	139,938	58,683	11,285	31,975	54,169	35,361	160,251
Office of the Secretary, total	9,000	0	0	0	0	0	0	9,000	0
Office of the Asst Secretary, Planning & Evaluation	9,000	0	0	0	0	0	0	9,000	0

See explanatory information, if any, and SOURCE at end of table.

Table C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	14,053	0	0	0	27	218	149	12,504	1,155
Department of the Interior, total	502,733	130,205	0	42,103	269,657	21,278	23,875	15,584	31
Bureau of Reclamation	5,887	0	0	0	0	0	5,887	0	0
Geological Survey[11]	448,543	126,476	0	41,650	247,218	19,965	12,717	517	0
Minerals Management Service	22,891	0	0	122	17,410	566	3,480	1,313	0
National Park Service[12]	25,412	3,729	0	331	5,029	747	1,791	13,754	31
Department of Justice, total	17,993	0	475	300	0	0	400	14,283	2,535
Bureau of Prisons	2,600	0	475	0	0	0	0	2,125	0
Drug Enforcement Administration	60	0	0	0	0	0	0	0	60
Immigration & Naturalization Svc	400	0	0	0	0	0	400	0	0
Office of Justice Programs	14,933	0	0	300	0	0	0	12,158	2,475
Department of Labor, total	10,915	0	0	0	0	0	0	10,915	0
Bureau of Labor Statistics	1,300	0	0	0	0	0	0	1,300	0
Employment & Training Admin	1,990	0	0	0	0	0	0	1,990	0
Occupational Safety & Hlth Admin	4,055	0	0	0	0	0	0	4,055	0
Office of the Secretary	1,096	0	0	0	0	0	0	1,096	0
Pension Benefit Guaranty Corp	55	0	0	0	0	0	0	55	0
Pension & Welfare Benefits Admin	2,419	0	0	0	0	0	0	2,419	0
Department of State, total	833	0	0	0	0	0	0	833	0
Department of Transportation, total	407,911	10,022	25,256	36,503	8,939	18,630	246,626	15,688	46,247
Coast Guard	4,919	0	606	0	608	1,258	2,447	0	0
Federal Aviation Administration	130,980	3,200	19,634	36,124	3,526	2,268	45,212	0	21,016
Federal Highway Administration	189,133	3,040	5,016	143	4,534	4,074	139,712	7,383	25,231
Federal Railroad Administration	20,138	0	0	0	0	1,075	19,063	0	0
Federal Transit Administration	14,987	0	0	0	171	456	12,878	1,482	0
National Highway Traffic Safety Administration	42,021	3,782	0	0	0	4,202	27,314	6,723	0
Research & Special Programs Admin	5,733	0	0	236	100	5,297	0	100	0
Department of the Treasury, total	41,058	160	437	1,984	0	300	100	38,077	0
Bureau of Engraving & Printing	1,784	0	0	1,684	0	0	100	0	0
Internal Revenue Service	37,494	0	0	0	0	0	0	37,494	0
Office of Thrift Supervision	583	0	0	0	0	0	0	583	0
United States Customs Service	600	0	0	300	0	300	0	0	0
United States Secret Service[13]	597	160	437	0	0	0	0	0	0
Department of Veterans Affairs	209,061	196,628	12,310	0	0	0	123	0	0
Other agencies:									
Appalachian Regional Commission	900	0	0	0	0	0	0	900	0
Consumer Product Safety Commission	206	0	206	0	0	0	0	0	0
Environmental Protection Agency	403,200	111,465	0	0	172,550	0	119,185	0	0
Federal Communications Commission	3,198	0	0	140	0	116	1,492	1,450	0
Federal Trade Commission	509	0	0	0	0	0	0	509	0
Internat'l Development Cooperation Agency, total	202,000	182,000	0	0	0	0	0	17,000	3,000
Agency for Internat'l Dvlpmt[14]	202,000	182,000	0	0	0	0	0	17,000	3,000
Library of Congress	1,749	0	0	0	0	0	0	0	1,749
National Aeronautics & Space Admin	2,318,974	197,871	16,261	205,247	408,619	59,670	1,422,527	0	8,779
National Archives & Records Admin	120	0	0	120	0	0	0	0	0
National Science Foundation	200,080	11,343	2,382	16,585	4,904	21,331	121,580	12,334	9,621
Nuclear Regulatory Commission	53,884	0	0	0	0	0	53,884	0	0
Social Security Administration[15]	37,070	0	0	0	0	0	0	37,070	0
Tennessee Valley Authority	2,700	1,109	0	434	1,039	0	118	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-44. Preliminary Federal obligations for applied research, by agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

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Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
US Arms Control & Disarmament Agcy	987	49	0	311	350	0	50	104	123
United States Information Agency	100	0	0	0	0	0	100	0	0
US Internat'l Trade Commission	5,980	0	0	0	0	0	0	5,980	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[15] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	231,458	29,656	72,113	129,689	5,188,675	1,899,133	522,696	288,136	2,232,592	246,118
Departments:										
Department of Agriculture, total	410	0	410	0	453,182	51,251	141,300	249,061	11,565	5
Agricultural Marketing Service	0	0	0	0	4,226	0	0	4,226	0	0
Agricultural Research Service[1]	0	0	0	0	215,290	7,119	38,165	166,710	3,291	5
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	148,280	28,132	41,135	74,239	4,774	0
Food Safety Inspection Service	0	0	0	0	1,645	0	0	1,645	0	0
Foreign Agricultural Service[3]	0	0	0	0	434	0	0	434	0	0
Forest Service	410	0	410	0	82,800	16,000	62,000	1,300	3,500	0
Grain Inspection Packers & Stockyards Administration[4]	0	0	0	0	507	0	0	507	0	0
Department of Commerce, total	139	0	139	0	160,883	57,932	70,621	15,531	16,799	0
Bureau of the Census	139	0	139	0	0	0	0	0	0	0
National Inst of Standards & Tech	0	0	0	0	43,583	29,047	58	343	14,135	0
Nat'l Oceanic & Atmospheric Admin	0	0	0	0	117,300	28,885	70,563	15,188	2,664	0
Department of Defense, total	43,130	10,524	29,519	3,087	175,932	19,355	12,902	50	116,215	27,410
Department of the Army	7,497	611	6,886	0	69,260	1,765	1,612	0	65,883	0
Department of the Navy	9,399	9,399	0	0	28,498	0	0	0	14,899	13,599
Department of the Air Force	18,284	514	14,683	3,087	27,202	4,789	11,269	0	8,508	2,636
Defense Agencies, total	7,950	0	7,950	0	50,972	12,801	21	50	26,925	11,175
Defense Advanced Research Projects Agency[5]	0	0	0	0	23,884	6,730	21	0	17,133	0
Defense Logistics Agency	7,950	0	7,950	0	0	0	0	0	0	0
Defense Special Weapons Agency[6]	0	0	0	0	3,656	3,606	0	50	0	0
Special Operations Command	0	0	0	0	779	0	0	0	0	779
Washington Headquarters Services[7] [8]	0	0	0	0	22,653	2,465	0	0	9,792	10,396
Department of Education	3,256	0	1,954	1,302	10,659	0	0	0	5,189	5,470
Department of Energy	0	0	0	0	73,892	24,660	4,000	0	45,232	0
Dept of Health & Human Svcs, total	126,760	4,859	2,784	119,117	3,510,478	1,587,701	23,790	0	1,730,758	168,229
Agcy for Hlth Care Policy & Rsch	1,024	0	747	277	43,977	0	0	0	38,304	5,673
Centers for Disease Control & Prevention	0	0	0	0	296,672	0	0	0	296,672	0
Food & Drug Administration	0	0	0	0	170,844	158,683	0	0	0	12,161
Health Care Financing Admin	0	0	0	0	52,685	0	0	0	0	52,685
Health Resources & Services Admin	0	0	0	0	10,063	0	0	0	10,063	0
National Institutes of Health[9]	125,736	4,859	2,037	118,840	2,936,237	1,429,018	23,790	0	1,385,719	97,710
Department of the Interior, total	0	0	0	0	122,055	64,191	57,623	241	0	0
Geological Survey[10]	0	0	0	0	119,239	62,971	56,141	127	0	0
National Park Service[11]	0	0	0	0	2,816	1,220	1,482	114	0	0
Department of Justice, total	875	0	500	375	0	0	0	0	0	0
Bureau of Prisons	475	0	300	175	0	0	0	0	0	0
Office of Justice Programs	400	0	200	200	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-45. Federal obligations for applied research in psychology and life sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Department of Transportation, total	26,378	629	23,294	2,455	7,354	0	1,353	586	2,498	2,917
Coast Guard	629	629	0	0	0	0	0	0	0	0
Federal Aviation Administration	22,987	0	22,987	0	2,498	0	0	0	2,498	0
Federal Highway Administration	2,762	0	307	2,455	1,939	0	1,353	586	0	0
National Highway Traffic Safety Administration	0	0	0	0	2,917	0	0	0	0	2,917
Department of the Treasury, total	302	0	0	302	152	0	0	0	152	0
United States Secret Service[12]	302	0	0	302	152	0	0	0	152	0
Department of Veterans Affairs	13,119	13,089	30	0	209,551	33,879	0	0	175,672	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	90,979	0	73,723	0	17,256	0
Internat'l Development Cooperation Agency, total	0	0	0	0	188,000	0	123,000	21,000	11,000	33,000
Agency for Internat'l Dvlpmt[13]	0	0	0	0	188,000	0	123,000	21,000	11,000	33,000
National Aeronautics & Space Admin	14,584	0	13,043	1,541	172,391	57,421	5,784	793	100,256	8,137
National Science Foundation	2,505	555	440	1,510	11,396	2,743	7,703	0	0	950
Tennessee Valley Authority	0	0	0	0	1,771	0	897	874	0	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[7] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[8] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

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[13] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Physical sciences: Total	Physical sciences: Astronomy	Physical sciences: Chemistry	Physical sciences: Physics	Physical sciences: Physical sciences, n.e.c.	Environmental sciences: Total	Environmental sciences: Atmospheric	Environmental sciences: Geological	Environmental sciences: Oceanography	Environmental sciences: Environmental sciences, n.e.c.
Total, all agencies	1,062,684	20,165	330,501	446,812	265,206	1,465,833	415,212	393,948	264,996	391,677
Departments:										
Department of Agriculture, total	49,937	0	46,874	3,063	0	8,859	7,505	1,350	0	4
Agricultural Research Service[1]	30,842	0	29,159	1,683	0	2,226	2,012	210	0	4
Cooperative State Research, Education, & Extension Service[2]	13,715	0	13,715	0	0	1,733	1,733	0	0	0
Forest Service	5,380	0	4,000	1,380	0	4,900	3,760	1,140	0	0
Department of Commerce, total	78,415	0	34,655	43,322	438	258,424	107,209	36,631	104,934	9,650
National Inst of Standards & Tech	57,275	0	23,102	33,735	438	281	0	237	0	44
Nat'l Oceanic & Atmospheric Admin	21,140	0	11,553	9,587	0	258,143	107,209	36,394	104,934	9,606
Department of Defense, total	206,489	0	26,920	144,917	34,652	239,444	26,130	29,753	51,891	131,670
Department of the Army	29,155	0	8,386	7,490	13,279	37,320	5,969	1,330	0	30,021
Department of the Navy	2,250	0	0	2,250	0	148,891	12,599	0	51,347	84,945
Department of the Air Force	95,274	0	9,864	85,204	206	12,172	5,269	1,576	0	5,327
Defense Agencies, total	79,810	0	8,670	49,973	21,167	41,061	2,293	26,847	544	11,377
Ballistic Missile Defense Organization	12,078	0	1,000	10,078	1,000	872	872	0	0	0
Defense Advanced Research Projects Agency[3]	2,248	0	0	2,248	0	27,514	123	26,847	544	0
Defense Special Weapons Agency[4]	46,939	0	0	28,452	18,487	6,914	1,298	0	0	5,616
Washington Headquarters Services[5] [6]	18,545	0	7,670	9,195	1,680	5,761	0	0	0	5,761
Department of Energy	496,422	0	124,629	159,142	212,651	223,614	34,989	34,807	3,380	150,438
Dept of Health & Human Svcs, total	52,733	0	46,857	5,876	0	10,241	0	0	0	10,241
National Institutes of Health[7]	52,733	0	46,857	5,876	0	10,241	0	0	0	10,241
Dept of Housing & Urban Dvlpmt	0	0	0	0	0	3	0	0	0	3
Department of the Interior, total	40,658	0	33,525	7,133	0	269,709	2,464	251,679	15,078	488
Geological Survey[8]	39,833	0	33,194	6,639	0	251,487	724	250,763	0	0
Minerals Management Service	494	0	0	494	0	15,193	275	24	14,800	94
National Park Service[9]	331	0	331	0	0	3,029	1,465	892	278	394
Department of Justice, total	1,000	0	500	0	500	0	0	0	0	0
Office of Justice Programs	1,000	0	500	0	500	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-46. Federal obligations for applied research in physical and environmental sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Department of Transportation, total	31,605	0	0	31,605	0	7,207	5,726	0	630	851
Coast Guard	0	0	0	0	0	630	0	0	630	0
Federal Aviation Administration	29,058	0	0	29,058	0	5,726	5,726	0	0	0
Federal Highway Administration	2,547	0	0	2,547	0	851	0	0	0	851
Department of the Treasury, total	1,846	0	540	109	1,197	0	0	0	0	0
Bureau of Engraving & Printing	1,516	0	210	109	1,197	0	0	0	0	0
United States Customs Service	330	0	330	0	0	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	0	0	0	0	0	140,837	65,675	9,163	0	65,999
Federal Communications Commission	85	0	0	0	85	0	0	0	0	0
National Aeronautics & Space Admin	86.927	20,148	7,179	47,429	12,171	301,600	164,039	28,137	87,462	21,962
National Archives & Records Admin	120	0	80	40	0	0	0	0	0	0
National Science Foundation	15,125	17	7,708	3.996	3,404	4.641	221	2,428	1,621	371
Tennessee Valley Authority	914	0	914	0	0	1,254	1,254	0	0	0
US Arms Control & Disarmament Agcy	408	0	120	180	108	0	0	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

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[9] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-47. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, n.e.c.
Total, all agencies	4,072,979	987,642	454,748	155,705	247,240	468,268	181,039	486,310	1,092,027
Departments:									
Department of Agriculture, total	50,040	0	0	5,675	4,714	177	2,756	0	36,718
Agricultural Research Service[1]	6,999	0	0	3,975	914	111	396	0	1,603
Cooperative State Research, Education, & Extension Service[2]	17,315	0	0	0	0	0	0	0	17,315
Forest Service	25,726	0	0	1,700	3,800	66	2,360	0	17,800
Department of Commerce, total	181,557	0	0	12,844	10,274	49,028	4,378	66,247	38,786
National Inst of Standards & Tech	167,486	0	0	12,844	10,274	42,488	4,378	66,247	31,255
Nat'l Oceanic & Atmospheric Admin	9,413	0	0	0	0	1,882	0	0	7,531
National Telecommunications & Information Administration	4,658	0	0	0	0	4,658	0	0	0
Department of Defense, total	1,593,543	199,129	67,950	35,506	49,372	366,756	146,299	348,143	380,388
Department of the Army	275,822	9,859	14,636	18,870	23,584	101,712	45,356	16,049	45,756
Department of the Navy	316,380	29,448	0	5,000	0	112,181	28,246	43,661	97,844
Department of the Air Force	439,880	152,920	35,214	6,742	19,929	81,819	64,958	66,071	12,227
Defense Agencies, total	561,461	6,902	18,100	4,894	5,859	71,044	7,739	222,362	224,561
Ballistic Missile Defense Organization	57,527	2,947	18,100	1,822	0	14,523	0	12,504	7,631
Defense Advanced Research Projects Agency[3]	390,741	3,702	0	183	5,679	23,426	0	209,858	147,893
Defense Special Weapons Agency[4]	67,171	253	0	2,889	180	33,095	7,739	0	23,015
Special Operations Command	24,145	0	0	0	0	0	0	0	24,145
Washington Headquarters Services[5] [6]	21,877	0	0	0	0	0	0	0	21,877
Department of Education	6,511	0	0	0	0	0	0	0	6,511
Department of Energy	417,723	0	0	75,217	37,701	24,817	514	32,759	246,715
Dept of Health & Human Svcs, total	48,480	0	0	0	0	0	0	0	48,480
National Institutes of Health[7]	48,480	0	0	0	0	0	0	0	48,480
Dept of Housing & Urban Dvlpmt	373	0	0	0	0	0	0	0	373
Department of the Interior, total	21,409	0	0	12,422	8,389	123	151	282	42
Bureau of Reclamation	4,901	0	0	0	4,871	30	0	0	0
Geological Survey[8]	11,618	0	0	10,622	752	93	151	0	0
Minerals Management Service	3,099	0	0	1,800	975	0	0	282	42
National Park Service[9]	1,791	0	0	0	1,791	0	0	0	0
Department of Justice, total	211	0	0	0	0	0	211	0	0
Immigration & Naturalization Svc	211	0	0	0	0	0	211	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-47. Federal obligations for applied research in engineering, by agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metallurgy and materials	Engi-neering, n.e.c.
Department of Transportation, total	208,795	0	0	39	131,445	7,089	17,879	4,980	47,363
Coast Guard	2,492	0	0	0	386	1,049	513	544	0
Federal Aviation Administration	49,531	0	0	0	45,599	0	0	3,932	0
Federal Highway Administration	105,600	0	0	39	81,403	0	1,939	104	22,115
Federal Railroad Administration	20,973	0	0	0	4,057	6,040	7,356	300	3,220
Federal Transit Administration	4,208	0	0	0	0	0	296	0	3,912
National Highway Traffic Safety Administration	21,750	0	0	0	0	0	7,775	0	13,975
Research & Special Programs Admin	4,241	0	0	0	0	0	0	100	4,141
Department of the Treasury, total	2	0	0	0	0	0	0	0	2
Bureau of Engraving & Printing	2	0	0	0	0	0	0	0	2
Department of Veterans Affairs	131	0	0	0	0	0	0	0	131
Other agencies:									
Environmental Protection Agency	97,284	0	0	2,144	0	0	0	0	95,140
Federal Communications Commission	1,509	0	0	0	0	1,509	0	0	0
National Aeronautics & Space Admin	1,263,743	788,513	386,798	537	40	17,684	7,679	32,250	30,242
National Science Foundation	109,753	0	0	10,464	5,305	936	1,172	1,649	90,227
Nuclear Regulatory Commission	70,909	0	0	0	0	0	0	0	70,909
Tennessee Valley Authority	857	0	0	857	0	0	0	0	0
United States Information Agency	149	0	0	0	0	149	0	0	0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[8] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[9] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	932,149	91,833	742,181	98,135	444,228	5,005	153,076	10,517	27,656	247,974
Departments:										
Department of Agriculture, total	13,258	12,394	864	0	92,909	220	86,718	0	5,971	0
Agricultural Research Service[1]	1,211	347	864	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	32,693	0	27,612	0	5,081	0
Economic Research Service	0	0	0	0	47,655	0	47,655	0	0	0
Forest Service	9,500	9,500	0	0	11,210	220	10,100	0	890	0
Nat'l Agricultural Statistics Svc	2,547	2,547	0	0	0	0	0	0	0	0
Rural Business-Cooperative Svc[3]	0	0	0	0	1,351	0	1,351	0	0	0
Department of Commerce, total	75,625	12,775	56,543	6,307	19,124	0	5,479	7,709	5,936	0
Bureau of the Census	1,008	875	133	0	414	0	227	187	0	0
Economic Development Admin	0	0	0	0	591	0	591	0	0	0
National Inst of Standards & Tech	49,313	3,531	39,475	6,307	216	0	216	0	0	0
Nat'l Oceanic & Atmospheric Admin	18,077	8,369	9,708	0	17,903	0	4,445	7,522	5,936	0
National Telecommunications & Information Administration	7,227	0	7,227	0	0	0	0	0	0	0
Department of Defense, total	481,844	45,368	407,466	29,010	2,387	0	217	0	145	2,025
Department of the Army	52,436	6,271	29,801	16,364	2,387	0	217	0	145	2,025
Department of the Navy	11,395	0	11,395	0	0	0	0	0	0	0
Department of the Air Force	57,595	33,714	20,193	3,688	0	0	0	0	0	0
Defense Agencies, total	360,418	5,383	346,077	8,958	0	0	0	0	0	0
Ballistic Missile Defense Organization	16,728	1,477	12,000	3,251	0	0	0	0	0	0
Defense Advanced Research Projects Agency[4]	337,264	3,906	332,932	426	0	0	0	0	0	0
Defense Special Weapons Agency[5]	1,145	0	1,145	0	0	0	0	0	0	0
Washington Headquarters Services[6] [7]	5,281	0	0	5,281	0	0	0	0	0	0
Department of Education	814	0	814	0	110,814	0	0	0	0	110,814
Department of Energy	199,140	0	187,290	11,850	0	0	0	0	0	0
Dept of Health & Human Svcs, total	39,013	13,881	24,811	321	74,868	0	17,365	143	1,501	55,859
Administration on Aging	0	0	0	0	171	0	0	0	0	171
Admin for Children & Families	0	0	0	0	12,567	0	0	0	0	12,567
Agcy for Hlth Care Policy & Rsch	10,164	8	9,835	321	22,120	0	17,365	143	1,435	3,177
National Institutes of Health[8]	28,849	13,873	14,976	0	31,042	0	0	0	66	30,976
Office of the Secretary, total	0	0	0	0	8,968	0	0	0	0	8,968
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	8,968	0	0	0	0	8,968

See explanatory information, if any, and SOURCE at end of table.

Table C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Dept of Housing & Urban Dvlpmt	79	0	0	79	10,208	0	9,020	6	445	737
Department of the Interior, total	18,319	3,146	14,088	1,085	13,855	4,730	139	31	564	8,391
Geological Survey[9]	17,037	3,146	13,891	0	319	0	0	0	0	319
Minerals Management Service	1,085	0	0	1,085	1,985	11	111	0	553	1,310
National Park Service[10]	197	0	197	0	11,551	4,719	28	31	11	6,762
Department of Justice, total	0	0	0	0	15,339	55	355	600	8,665	5,664
Bureau of Prisons	0	0	0	0	2,619	55	55	0	1,165	1,344
Office of Justice Programs	0	0	0	0	12,720	0	300	600	7,500	4,320
Department of Labor, total	0	0	0	0	15,172	0	15,172	0	0	0
Bureau of Labor Statistics	0	0	0	0	1,800	0	1,800	0	0	0
Employment & Training Admin	0	0	0	0	2,622	0	2,622	0	0	0
Occupational Safety & Hlth Admin	0	0	0	0	6,602	0	6,602	0	0	0
Office of the Secretary	0	0	0	0	1,764	0	1,764	0	0	0
Pension Benefit Guaranty Corp	0	0	0	0	53	0	53	0	0	0
Pension & Welfare Benefits Admin	0	0	0	0	2,331	0	2,331	0	0	0
Department of State, total	0	0	0	0	924	0	40	450	141	293
Department of Transportation, total	17,826	190	13,150	4,486	11,355	0	4,069	322	913	6,051
Coast Guard	1,253	0	1,253	0	0	0	0	0	0	0
Federal Aviation Administration	8,859	0	8,859	0	0	0	0	0	0	0
Federal Highway Administration	2,045	190	1,409	446	5,458	0	3,314	322	913	909
Federal Railroad Administration	330	0	190	140	0	0	0	0	0	0
Federal Transit Administration	946	0	473	473	428	0	355	0	0	73
National Highway Traffic Safety Administration	3,427	0	0	3,427	5,069	0	0	0	0	5,069
Research & Special Programs Admin	966	0	966	0	400	0	400	0	0	0
Department of the Treasury, total	14,150	0	14,150	0	33,991	0	2,050	0	0	31,941
Internal Revenue Service	14,000	0	14,000	0	33,454	0	1,513	0	0	31,941
Office of Thrift Supervision	0	0	0	0	537	0	537	0	0	0
United States Customs Service	150	0	150	0	0	0	0	0	0	0
Other agencies:										
Appalachian Regional Commission	0	0	0	0	900	0	0	900	0	0
Federal Communications Commission	108	0	108	0	1,099	0	1,099	0	0	0
Federal Trade Commission	0	0	0	0	505	0	505	0	0	0
Internat'l Development Cooperation Agency, total	0	0	0	0	13,400	0	7,660	140	3,300	2,300
Agency for Internat'l Dvlpmt[11]	0	0	0	0	13,400	0	7,660	140	3,300	2,300
National Aeronautics & Space Admin	52,085	3,775	8,328	39,982	0	0	0	0	0	0
National Science Foundation	19,888	304	14,569	5,015	12,446	0	0	0	75	12,371
Social Security Administration[12]	0	0	0	0	11,528	0	0	0	0	11,528

See explanatory information, if any, and SOURCE at end of table.

Table C-48. Federal obligations for applied research in mathematics and computer sciences and in social sciences, by agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
US Arms Control & Disarmament Agcy	0	0	0	0	216	0	0	216	0	0
US Internat'l Trade Commission	0	0	0	0	3,188	0	3,188	0	0	0

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

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[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

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[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[12] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	39,397,520	9,068,148	26,070,131	440,722	1,270,985	1,061,630	707,384	558,680	59,329	160,511
Departments:										
Department of Agriculture, total	80,307	76,946	0	0	2,732	0	313	0	26	290
Agricultural Marketing Service	628	628	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	54,014	51,083	0	0	2,302	0	313	0	26	290
Animal & Plant Hlth Inspection Svc	18,035	17,605	0	0	430	0	0	0	0	0
Forest Service	5,600	5,600	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration[3]	2,030	2,030	0	0	0	0	0	0	0	0
Department of Commerce, total	216,920	66,116	142,166	0	3,903	100	2,113	0	1,522	1,000
Bureau of the Census	3,808	3,808	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	161,642	17,132	141,978	0	350	100	1,082	0	0	1,000
Nat'l Oceanic & Atmospheric Admin	47,704	45,175	188	0	2,341	0	0	0	0	0
National Telecommunications & Information Administration	3,766	1	0	0	1,212	0	1,031	0	1,522	0
Department of Defense, total[4]	30,499,404	6,820,505	22,219,273	71,579	373,455	184,982	268,570	474,806	0	86,234
Department of the Army	4,203,150	1,864,332	2,250,188	9,064	19,771	30,797	3,523	21,105	0	4,370
Department of the Navy	7,712,907	2,464,835	4,940,641	1,646	151,591	14,722	54,708	64,396	0	20,368
Department of the Air Force	12,159,829	770,754	11,033,993	18,061	16,214	36,267	3,149	280,979	0	412
Defense Agencies, total	6,143,956	1,491,429	3,961,785	42,808	185,879	103,021	207,190	90,760	0	61,084
Ballistic Missile Defense Organization	2,709,957	437,254	2,050,998	22,136	77,606	45,513	26	28,091	0	48,333
Defense Advanced Research Projects Agency[5]	1,671,585	332,895	1,011,946	1,323	78,919	31,454	188,009	17,654	0	9,385
Defense Information Systems Agency	63,349	18,973	30,124	0	0	289	4,702	9,261	0	0
Defense Logistics Agency	26,378	3,702	20,710	0	1,766	0	0	200	0	0
Defense Special Weapons Agcy[6]	30,742	9,248	16,442	948	0	2,316	1,183	605	0	0
Joint Staff	5,526	5,526	0	0	0	0	0	0	0	0
Special Operations Command	138,412	37,373	98,621	2,318	0	0	0	0	0	100
Washington Headquarters Services[7] [8]	1,498,007	646,458	732,944	16,083	27,588	23,449	13,270	34,949	0	3,266
Operational Test & Evaluation, Director	21,895	8,800	0	0	0	175	0	12,920	0	0
Test & Evaluation, Deputy Under Secretary of Defense	257,667	220,355	32,666	0	0	0	0	4,646	0	0
Department of Defense, total advanced technology (at)[4]	4,460,417	1,199,230	2,587,734	22,645	196,439	98,657	251,727	67,395	0	36,590
Department of the Army (at)	706,954	299,125	369,953	1,625	12,131	15,406	891	5,877	0	1,946
Department of the Navy (at)	454,795	168,041	208,016	0	28,146	2,426	45,377	2,789	0	0
Department of the Air Force (at)	494,714	136,472	328,576	242	9,265	7,134	2,976	9,971	0	78
Defense Agencies, total (at)	2,803,954	595,592	1,681,189	20,778	146,897	73,691	202,483	48,758	0	34,566
Ballistic Missile Defense Organization (at)	639,681	84,816	443,913	1,700	42,163	17,472	21	27,681	0	21,915
Defense Advanced Research Projects Agency (at)[5]	1,606,862	296,596	983,522	1,323	78,919	31,454	188,009	17,654	0	9,385
Defense Logistics Agency (at)	17,671	1,606	14,299	0	1,766	0	0	0	0	0
Defense Special Weapons Agency (at)[6]	30,742	9,248	16,442	948	0	2,316	1,183	605	0	0
Joint Staff (at)	5,526	5,526	0	0	0	0	0	0	0	0
Special Operations Command (at)	58,091	15,696	41,421	974	0	0	0	0	0	0
Washington Headquarters Services (at)[7] [8]	445,381	182,104	181,592	15,833	24,049	22,449	13,270	2,818	0	3,266

See explanatory information, if any, and SOURCE at end of table.

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1996

[Dollars in thousands]

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Defense, total major systems (ms)[4]	26,038,987	5,621,275	19,631,539	48,934	177,016	86,325	16,843	407,411	0	49,644
Department of the Army (ms)	3,496,196	1,565,207	1,880,235	7,439	7,640	15,391	2,632	15,228	0	2,424
Department of the Navy (ms)	7,258,112	2,296,794	4,732,625	1,646	123,445	12,296	9,331	61,607	0	20,368
Department of the Air Force (ms)	11,665,115	634,282	10,705,417	17,819	6,949	29,133	173	271,008	0	334
Defense Agencies, total (ms)	3,340,002	895,837	2,280,596	22,030	38,982	29,330	4,707	42,002	0	26,518
Ballistic Missile Defense Organization (ms)	2,070,276	352,438	1,607,085	20,436	35,443	28,041	5	410	0	26,418
Defense Advanced Research Projects Agency (ms)[5]	64,723	36,299	28,424	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	63,349	18,973	30,124	0	0	289	4,702	9,261	0	0
Defense Logistics Agency (ms)	8,707	2,096	6,411	0	0	0	0	200	0	0
Special Operations Command (ms)	80,321	21,677	57,200	1,344	0	0	0	0	0	100
Washington Headquarters Services (ms)[7] [8]	1,052,626	464,354	551,352	250	3,539	1,000	0	32,131	0	0
Operational Test & Evaluation, Director (ms)	21,895	8,800	0	0	0	175	0	12,920	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	257,667	220,355	32,666	0	0	0	0	4,646	0	0
Department of Education	38,177	2,247	3,449	0	14,375	0	17,962	0	144	0
Department of Energy	1,982,784	271,395	948,963	345,436	34,717	284,873	12,046	81,693	3,140	521
Dept of Health & Human Svcs, total	1,407,225	347,718	81,530	18,436	708,431	1,937	230,356	1,354	11,201	6,262
Administration on Aging	3,533	683	84	0	67	0	2,699	0	0	0
Agcy for Hlth Care Policy & Rsch	9,162	9,162	0	0	0	0	0	0	0	0
National Institutes of Health[9]	1,374,070	336,875	81,446	18,436	696,108	1,937	221,567	1,354	10,085	6,262
Office of the Secretary, total	3,742	309	0	0	2,783	0	650	0	0	0
Off of Public Health & Science	3,742	309	0	0	2,783	0	650	0	0	0
Substance Abuse & Mental Health Services Administration	16,718	689	0	0	9,473	0	5,440	0	1,116	0
Dept of Housing & Urban Dvlpmt	21,954	11,749	7,762	0	953	0	1,490	0	0	0
Department of the Interior, total	25,461	23,088	1,986	0	360	0	0	0	27	0
Bureau of Reclamation	1,630	1,630	0	0	0	0	0	0	0	0
Geological Survey[10]	23,831	21,458	1,986	0	360	0	0	0	27	0
Department of Justice, total	45,241	34,364	2,256	0	1,208	0	2,295	0	5,118	0
Bureau of Prisons	2,154	450	0	0	0	0	0	0	1,704	0
Drug Enforcement Administration	1,155	455	700	0	0	0	0	0	0	0
Federal Bureau of Investigation	33,458	33,458	0	0	0	0	0	0	0	0
Office of Justice Programs	8,474	1	1,556	0	1,208	0	2,295	0	3,414	0
Department of Labor, total	25,752	951	6,487	0	36	0	3,316	0	14,962	0
Employment & Training Admin	24,300	761	6,000	0	0	0	2,587	0	14,952	0
Office of the Secretary	830	5	50	0	36	0	729	0	10	0
Pension Benefit Guaranty Corp	622	185	437	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-49. Federal obligations for development, by agency and performer: fiscal year 1996

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	174,499	44,056	87,468	0	11,121	0	9,433	0	22,421	0
Coast Guard	15,008	10,798	4,210	0	0	0	0	0	0	0
Federal Aviation Administration	77,725	16,339	61,386	0	0	0	0	0	0	0
Federal Highway Administration	66,113	11,109	19,773	0	6,130	0	8,295	0	20,806	0
Federal Railroad Administration	5,400	2,931	754	0	100	0	0	0	1,615	0
Federal Transit Administration	8,128	1,811	288	0	4,891	0	1,138	0	0	0
Research & Special Programs Admin	2,125	1,068	1,057	0	0	0	0	0	0	0
Department of the Treasury, total	9,548	5,107	4,441	0	0	0	0	0	0	0
Bureau of Engraving & Printing	107	107	0	0	0	0	0	0	0	0
Internal Revenue Service	3,746	2,200	1,546	0	0	0	0	0	0	0
United States Customs Service	5,695	2,800	2,895	0	0	0	0	0	0	0
Department of Veterans Affairs	20,791	19,862	0	0	929	0	0	0	0	0
Other agencies:										
Consumer Product Safety Commission	30	30	0	0	0	0	0	0	0	0
Environmental Protection Agency	83,500	42,588	22,132	0	13,622	0	4,460	0	318	380
Internat'l Development Cooperation Agency, total	18,000	2,400	300	0	800	0	6,500	0	0	8,000
Agency for Internat'l Dvlpmt[11]	18,000	2,400	300	0	800	0	6,500	0	0	8,000
Library of Congress	8,414	8,414	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,692,068	1,243,167	2,541,918	5,271	104,343	589,738	148,530	827	450	57,824
Tennessee Valley Authority	47,445	47,445	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[4] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[7] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[8] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[9] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[10] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	40,487,739	9,550,511	26,918,099	388,851	1,220,406	964,976	695,676	520,842	73,541	154,837
Departments										
Department of Agriculture, total	89,096	85,390	0	0	3,266	0	132	0	30	278
Agricultural Marketing Service	618	618	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	61,840	58,634	0	0	2,766	0	132	0	30	278
Animal & Plant Hlth Inspection Svc	19,136	18,636	0	0	500	0	0	0	0	0
Forest Service	5,300	5,300	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration[3]	2,202	2,202	0	0	0	0	0	0	0	0
Department of Commerce, total	190,912	67,996	118,171	495	2,405	105	910	0	0	830
Bureau of the Census	1,636	1,636	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	138,556	18,124	118,051	0	536	105	910	0	0	830
Nat'l Oceanic & Atmospheric Admin	47,270	44,786	120	495	1,869	0	0	0	0	0
National Telecommunications & Information Administration	3,450	3,450	0	0	0	0	0	0	0	0
Department of Defense, total[4]	31,020,825	7,262,100	22,447,719	84,746	289,984	165,641	230,166	434,398	17,770	88,301
Department of the Army	4,202,067	2,114,843	2,002,203	3,437	39,646	16,989	4,262	17,412	0	3,275
Department of the Navy	7,271,744	2,722,276	4,273,210	1,364	107,327	13,191	74,710	64,006	0	15,660
Department of the Air Force	13,054,666	714,511	11,987,050	21,623	9,638	44,984	2,623	273,807	0	430
Defense Agencies, total	6,228,924	1,487,918	4,162,124	58,322	133,373	90,326	148,571	61,584	17,770	68,936
Ballistic Missile Defense Organization	3,213,111	577,211	2,429,225	17,407	47,837	47,297	363	14,152	17,730	61,889
Defense Advanced Research Projects Agency[5]	1,344,855	271,246	826,327	1,038	59,341	24,670	147,460	13,847	0	926
Defense Information Systems Agency	54,121	13,349	32,151	0	0	592	0	8,029	0	0
Defense Logistics Agency	33,213	4,430	26,062	0	2,521	0	0	200	0	0
Defense Special Weapons Agcy[6]	22,314	6,347	13,371	859	0	1,437	240	60	0	0
Joint Staff	35,836	35,836	0	0	0	0	0	0	0	0
Special Operations Command	116,413	32,191	82,209	1,950	0	0	0	0	0	63
Washington Headquarters Services[7] [8]	1,409,061	547,308	752,779	37,068	23,674	16,330	508	25,296	40	6,058
Operational Test & Evaluation, Director	24,994	12,025	0	0	0	151	0	12,818	0	0
Test & Evaluation, Deputy Under Secretary of Defense	238,430	210,527	23,132	0	0	0	0	4,771	0	0
Department of Defense, total advanced technology (at)[4]	4,410,998	1,263,696	2,598,231	17,484	162,038	76,290	182,330	46,158	40	64,731
Department of the Army (at)	748,764	382,797	323,665	2,101	25,081	5,778	1,458	4,663	0	3,221
Department of the Navy (at)	547,033	201,761	290,446	0	19,376	1,555	29,938	3,957	0	0
Department of the Air Force (at)	398,693	101,979	270,975	314	8,488	6,075	2,363	8,428	0	71
Defense Agencies, total (at)	2,716,508	577,159	1,713,145	15,069	109,093	62,882	148,571	29,110	40	61,439
Ballistic Missile Defense Organization (at)	872,142	108,918	647,128	464	25,557	21,105	363	14,152	0	54,455
Defense Advanced Research Projects Agency (at)[5]	1,260,310	232,629	780,399	1,038	59,341	24,670	147,460	13,847	0	926
Defense Logistics Agency (at)	25,458	1,965	20,972	0	2,521	0	0	0	0	0
Defense Special Weapons Agency (at)[6]	22,314	6,347	13,371	859	0	1,437	240	60	0	0
Joint Staff (at)	35,836	35,836	0	0	0	0	0	0	0	0
Special Operations Command (at)	48,867	13,953	34,094	820	0	0	0	0	0	0
Washington Headquarters Services (at)[7] [8]	451,581	177,511	217,181	11,888	21,674	15,670	508	1,051	40	6,058

See explanatory information, if any, and SOURCE at end of table.

Table C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 2 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Defense, total major systems (ms)[4]	26,609,827	5,998,404	19,849,488	67,262	127,946	89,351	47,836	388,240	17,730	23,570
Department of the Army (ms)	3,453,303	1,732,046	1,678,538	1,336	14,565	11,211	2,804	12,749	0	54
Department of the Navy (ms)	6,724,711	2,520,515	3,982,764	1,364	87,951	11,636	44,772	60,049	0	15,660
Department of the Air Force (ms)	12,655,973	612,532	11,716,075	21,309	1,150	38,909	260	265,379	0	359
Defense Agencies, total (ms)	3,512,416	910,759	2,448,979	43,253	24,280	27,444	0	32,474	17,730	7,497
Ballistic Missile Defense Organization (ms)	2,340,969	468,293	1,782,097	16,943	22,280	26,192	0	0	17,730	7,434
Defense Advanced Research Projects Agency (ms)[5]	84,545	38,617	45,928	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	54,121	13,349	32,151	0	0	592	0	8,029	0	0
Defense Logistics Agency (ms)	7,755	2,465	5,090	0	0	0	0	200	0	0
Special Operations Command (ms)	67,546	18,238	48,115	1,130	0	0	0	0	0	63
Washington Headquarters Services (ms)[7][8]	957,480	369,797	535,598	25,180	2,000	660	0	24,245	0	0
Operational Test & Evaluation, Director (ms)	24,994	12,025	0	0	0	151	0	12,818	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	238,430	210,527	23,132	0	0	0	0	4,771	0	0
Department of Education	42,998	2,279	7,666	0	14,377	0	18,274	0	402	0
Department of Energy	2,189,131	265,965	1,261,084	278,312	30,216	260,052	5,774	84,139	3,138	451
Dept of Health & Human Svcs, total	1,487,778	369,924	85,848	20,104	746,397	2,042	243,421	1,517	11,925	6,600
Administration on Aging	3,951	341	0	0	0	0	3,610	0	0	0
Agcy for Hlth Care Policy & Rsch	9,668	9,668	0	0	0	0	0	0	0	0
National Institutes of Health[9]	1,452,860	358,930	85,848	20,104	733,735	2,042	233,454	1,517	10,630	6,600
Office of the Secretary, total	1,906	186	0	0	1,673	0	47	0	0	0
Off of Public Health & Science	1,906	186	0	0	1,673	0	47	0	0	0
Substance Abuse & Mental Health Services Administration	19,393	799	0	0	10,989	0	6,310	0	1,295	0
Dept of Housing & Urban Dvlpmt	23,388	13,647	7,176	0	501	0	2,064	0	0	0
Department of the Interior, total	27,456	24,837	2,218	0	371	0	0	0	30	0
Bureau of Reclamation	1,910	1,910	0	0	0	0	0	0	0	0
Geological Survey[10]	25,546	22,927	2,218	0	371	0	0	0	30	0
Department of Justice, total	54,985	37,330	400	0	2,200	0	13,300	0	1,755	0
Bureau of Prisons	2,255	500	0	0	0	0	0	0	1,755	0
Drug Enforcement Administration	450	50	400	0	0	0	0	0	0	0
Federal Bureau of Investigation	35,880	35,880	0	0	0	0	0	0	0	0
Office of Justice Programs	16,400	900	0	0	2,200	0	13,300	0	0	0
Department of Labor, total	18,552	1,211	3,843	0	140	0	3,252	0	10,106	0
Employment & Training Admin	16,827	787	3,365	0	0	0	2,579	0	10,096	0
Office of the Secretary	1,123	235	65	0	140	0	673	0	10	0
Pension Benefit Guaranty Corp	602	189	413	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-50. Preliminary Federal obligations for development, by agency and performer: fiscal year 1997

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	205,688	49,620	103,266	0	10,154	0	15,073	0	27,575	0
Coast Guard	18,720	13,469	5,251	0	0	0	0	0	0	0
Federal Aviation Administration	82,106	20,223	61,883	0	0	0	0	0	0	0
Federal Highway Administration	87,486	12,732	33,492	0	2,777	0	13,410	0	25,075	0
Federal Railroad Administration	650	350	300	0	0	0	0	0	0	0
Federal Transit Administration	14,197	1,641	1,016	0	7,377	0	1,663	0	2,500	0
Research & Special Programs Admin	2,529	1,205	1,324	0	0	0	0	0	0	0
Department of the Treasury, total	10,457	5,073	5,384	0	0	0	0	0	0	0
Bureau of Engraving & Printing	56	56	0	0	0	0	0	0	0	0
Internal Revenue Service	3,576	2,180	1,396	0	0	0	0	0	0	0
United States Customs Service	5,750	2,800	2,950	0	0	0	0	0	0	0
United States Mint	1,075	37	1,038	0	0	0	0	0	0	0
Department of Veterans Affairs	22,409	21,409	0	0	1,000	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	89,200	45,495	23,643	0	14,552	0	4,764	0	340	406
Internat'l Development Cooperation Agency, total	13,000	1,200	200	0	500	0	11,000	0	0	100
Agency for Internat'l Dvlpmt[11]	13,000	1,200	200	0	500	0	11,000	0	0	100
Library of Congress	7,855	7,855	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	4,939,771	1,234,942	2,851,481	5,194	104,343	537,136	147,546	788	470	57,871
Tennessee Valley Authority	54,238	54,238	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[4] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

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Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 1 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	39,619,802	8,789,139	26,966,647	439,418	1,187,465	841,241	687,476	521,872	31,458	155,086
Departments										
Department of Agriculture, total	89,128	85,674	0	0	3,014	0	132	0	30	278
Agricultural Marketing Service	612	612	0	0	0	0	0	0	0	0
Agricultural Research Service [2]	62,716	59,762	0	0	2,514	0	132	0	30	278
Animal & Plant Hlth Inspection Svc	18,274	17,774	0	0	500	0	0	0	0	0
Forest Service	5,300	5,300	0	0	0	0	0	0	0	0
Grain Inspection Packers & Stockyards Administration [3]	2,226	2,226	0	0	0	0	0	0	0	0
Department of Commerce, total	182,314	55,729	122,310	0	2,369	105	941	0	0	860
Bureau of the Census	1,636	1,636	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	142,553	17,847	122,260	0	540	105	941	0	0	860
Nat'l Oceanic & Atmospheric Admin	32,950	31,071	50	0	1,829	0	0	0	0	0
National Telecommunications & Information Administration	5,175	5,175	0	0	0	0	0	0	0	0
Department of Defense, total [4]	30,122,666	6,372,033	22,600,004	113,435	239,548	109,567	207,863	391,833	0	88,383
Department of the Army	3,875,182	1,561,425	2,259,674	8,593	15,443	6,133	3,349	10,936	0	9,629
Department of the Navy	6,951,252	2,604,898	4,110,026	1,614	103,803	14,935	46,253	53,748	0	15,975
Department of the Air Force	13,588,722	638,426	12,658,263	23,208	8,053	6,510	2,771	251,287	0	204
Defense Agencies, total	5,414,338	1,318,232	3,548,987	80,020	112,249	81,839	155,490	54,946	0	62,575
Ballistic Missile Defense Organization	2,462,652	460,131	1,838,586	16,041	36,116	37,917	766	19,095	0	54,000
Defense Advanced Research Projects Agency [5]	1,323,789	270,883	819,075	1,015	49,190	24,113	144,132	13,535	0	1,846
Defense Information Systems Agency	55,925	14,191	34,405	0	0	0	0	7,329	0	0
Defense Logistics Agency	46,751	5,141	28,560	0	5,364	0	7,486	200	0	0
Defense Special Weapons Agcy [6]	70,188	1,774	67,787	212	0	355	60	0	0	0
Joint Staff	67,189	67,189	0	0	0	0	0	0	0	0
Special Operations Command	109,270	29,955	76,501	1,815	0	0	0	0	0	999
Washington Headquarters Services [7] [8]	1,278,574	468,968	684,073	60,937	21,579	19,454	3,046	14,787	0	5,730
Operational Test & Evaluation, Director	23,468	7,721	0	0	0	150	0	15,597	0	0
Test & Evaluation, Deputy Under Secretary of Defense	269,704	241,331	23,054	0	0	0	0	5,319	0	0
Department of Defense, total advanced technology (at) [4]	3,827,722	926,823	2,396,800	22,828	120,642	65,334	179,651	53,712	0	61,932
Department of the Army (at)	444,255	146,745	282,984	4,756	3,487	4,297	349	1,327	0	310
Department of the Navy (at)	437,377	160,164	232,975	0	18,485	525	21,390	3,838	0	0
Department of the Air Force (at)	382,561	76,895	284,743	247	6,859	2,580	2,422	8,769	0	46
Defense Agencies, total (at)	2,563,529	543,019	1,596,098	17,825	91,811	57,932	155,490	39,778	0	61,576
Ballistic Missile Defense Organization (at)	670,453	83,098	479,565	541	18,378	15,010	766	19,095	0	54,000
Defense Advanced Research Projects Agency (at) [5]	1,231,868	227,379	770,658	1,015	49,190	24,113	144,132	13,535	0	1,846
Defense Logistics Agency (at)	40,959	2,349	25,760	0	5,364	0	7,486	0	0	0
Defense Special Weapons Agency (at) [6]	70,188	1,774	67,787	212	0	355	60	0	0	0
Joint Staff (at)	67,189	67,189	0	0	0	0	0	0	0	0
Special Operations Command (at)	45,474	12,984	31,727	763	0	0	0	0	0	0
Washington Headquarters Services (at) [7] [8]	437,398	148,246	220,601	15,294	18,879	18,454	3,046	7,148	0	5,730

See explanatory information, if any, and SOURCE at end of table.

Table C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 1998

[Dollars in thousands]

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Defense, total major systems (ms)[4]	26,294,944	5,445,210	20,203,204	90,607	118,906	44,233	28,212	338,121	0	26,451
Department of the Army (ms)	3,430,927	1,414,680	1,976,690	3,837	11,956	1,836	3,000	9,609	0	9,319
Department of the Navy (ms)	6,513,875	2,444,734	3,877,051	1,614	85,318	14,410	24,863	49,910	0	15,975
Department of the Air Force (ms)	13,206,161	561,531	12,373,520	22,961	1,194	3,930	349	242,518	0	158
Defense Agencies, total (ms)	2,850,809	775,213	1,952,889	62,195	20,438	23,907	0	15,168	0	999
Ballistic Missile Defense Organization (ms)	1,792,199	377,033	1,359,021	15,500	17,738	22,907	0	0	0	0
Defense Advanced Research Projects Agency (ms)[5]	91,921	43,504	48,417	0	0	0	0	0	0	0
Defense Information Systems Agency (ms)	55,925	14,191	34,405	0	0	0	0	7,329	0	0
Defense Logistics Agency (ms)	5,792	2,792	2,800	0	0	0	0	200	0	0
Special Operations Command (ms)	63,796	16,971	44,774	1,052	0	0	0	0	0	999
Washington Headquarters Services (ms)[7 8]	841,176	320,722	463,472	45,643	2,700	1,000	0	7,639	0	0
Operational Test & Evaluation, Director (ms)	23,468	7,721	0	0	0	150	0	15,597	0	0
Test & Evaluation, Deputy Under Secretary of Defense (ms)	269,704	241,331	23,054	0	0	0	0	5,319	0	0
Department of Education	56,315	2,279	11,337	0	18,291	0	23,679	0	729	0
Department of Energy	1,960,191	301,787	1,018,976	300,660	17,720	179,448	10,434	127,673	3,054	439
Dept of Health & Human Svcs, total	1,587,040	430,461	88,954	20,136	772,367	2,116	252,272	1,572	12,323	6,839
Administration on Aging	4,341	341	0	0	0	0	4,000	0	0	0
Agcy for Hlth Care Policy & Rsch	9,762	9,762	0	0	0	0	0	0	0	0
National Institutes of Health[9]	1,552,250	419,441	88,954	20,136	760,278	2,116	241,899	1,572	11,015	6,839
Office of the Secretary, total	1,100	110	0	0	990	0	0	0	0	0
Off of Public Health & Science	1,100	110	0	0	990	0	0	0	0	0
Substance Abuse & Mental Health Services Administration	19,587	807	0	0	11,099	0	6,373	0	1,308	0
Dept of Housing & Urban Dvlpmt	25,412	16,510	5,930	0	587	0	2,385	0	0	0
Department of the Interior, total	28,033	25,374	2,218	0	391	0	0	0	50	0
Bureau of Reclamation	1,962	1,962	0	0	0	0	0	0	0	0
Geological Survey[10]	26,071	23,412	2,218	0	391	0	0	0	50	0
Department of Justice, total	43,557	36,967	890	0	900	0	700	0	4,100	0
Bureau of Prisons	2,300	500	0	0	0	0	0	0	1,800	0
Drug Enforcement Administration	440	50	390	0	0	0	0	0	0	0
Federal Bureau of Investigation	35,917	35,917	0	0	0	0	0	0	0	0
Office of Justice Programs	4,900	500	500	0	900	0	700	0	2,300	0
Department of Labor, total	16,029	1,781	4,792	0	0	0	3,659	0	5,797	0
Employment & Training Admin	14,656	810	4,390	0	0	0	3,659	0	5,797	0
Office of the Secretary	778	778	0	0	0	0	0	0	0	0
Pension Benefit Guaranty Corp	595	193	402	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-51. Preliminary Federal obligations for development, by agency and performer: fiscal year 1998

[Dollars in thousands]

Page 3 of 3

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	218,107	61,094	127,851	0	10,571	0	14,048	0	4,543	0
Coast Guard	14,756	10,616	4,140	0	0	0	0	0	0	0
Federal Aviation Administration	97,723	21,089	76,634	0	0	0	0	0	0	0
Federal Highway Administration	101,960	27,280	45,518	0	10,571	0	14,048	0	4,543	0
Federal Railroad Administration	650	350	300	0	0	0	0	0	0	0
Federal Transit Administration	732	432	300	0	0	0	0	0	0	0
Research & Special Programs Admin	2,286	1,327	959	0	0	0	0	0	0	0
Department of the Treasury, total	11,840	5,069	6,771	0	0	0	0	0	0	0
Bureau of Engraving & Printing	89	89	0	0	0	0	0	0	0	0
Internal Revenue Service	3,576	2,180	1,396	0	0	0	0	0	0	0
United States Customs Service	8,175	2,800	5,375	0	0	0	0	0	0	0
Department of Veterans Affairs	19,509	18,637	0	0	872	0	0	0	0	0
Other agencies:										
Environmental Protection Agency	96,800	49,371	25,657	0	15,792	0	5,170	0	369	441
Internat'l Development Cooperation Agency, total	17,000	2,000	200	0	700	0	14,000	0	0	100
Agency for Internat'l Dvlpmt[11]	17,000	2,000	200	0	700	0	14,000	0	0	100
Library of Congress	9,394	9,394	0	0	0	0	0	0	0	0
National Aeronautics & Space Admin	5,095,317	1,273,829	2,950,757	5,187	104,343	550,005	152,193	794	463	57,746
Tennessee Valley Authority	41,150	41,150	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[4] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

[5] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[6] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[7] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[8] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[9] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[10] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-52. Federal funds for R&D plant, by agency: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Total, all agencies	1,746,117	2,023,252	1,754,330	1,846,233	1,965,531	1,914,787
Departments:						
Department of Agriculture, total	128,413	155,176	99,789	102,631	179,411	176,101
Agricultural Research Service[1]	67,889	87,589	97,789	67,541	96,968	97,789
Animal & Plant Health Inspection Service	1,500	0	0	1,500	0	0
Cooperative State Research, Education, & Extension Service[2]	56,524	65,587	0	31,090	80,443	76,312
Forest Service	2,500	2,000	2,000	2,500	2,000	2,000
Department of Commerce, total	84,481	30,051	23,392	26,902	30,339	29,564
National Institute of Standards & Technology	84,481	30,051	23,392	26,902	30,339	29,564
Department of Defense, total	46,826	77,685	87,036	95,265	51,509	53,297
Department of the Army, total	6,168	4,029	4,385	5,619	4,777	4,364
Department of the Army, Military Functions	6,168	4,029	4,385	5,619	4,777	4,364
Department of the Navy	8,037	38,207	41,745	26,556	17,584	25,325
Department of the Air Force	24,366	33,614	38,106	54,152	25,084	20,808
Defense Agencies, total	8,255	1,835	2,800	8,938	4,064	2,800
Ballistic Missile Defense Organization	8,054	1,635	2,600	8,054	1,635	2,600
Defense Logistics Agency	201	200	200	201	200	200
Defense Special Weapons Agency[3]	0	0	0	683	2,229	0
Department of Education	0	2,035	2,035	71	1,954	2,035
Department of Energy	705,895	747,182	812,966	809,902	842,296	827,859
Department of Health & Human Services, total	133,094	372,930	196,468	140,469	183,000	213,151
Food & Drug Administration	5,515	3,386	6,468	5,515	3,386	6,468
Health Resources & Services Administration	700	700	0	700	700	0
National Institutes of Health[4]	126,879	368,844	190,000	134,254	178,914	206,683
Department of the Interior, total	1,920	6,964	2,152	2,078	6,130	1,161
Geological Survey[5]	1,160	4,960	1,160	1,086	5,138	1,161
Minerals Management Service	760	2,004	992	992	992	0
Department of Transportation, total	31,841	22,107	17,977	14,176	21,844	20,075
Coast Guard	525	525	525	525	525	525
Federal Aviation Administration	20,600	17,200	14,290	6,000	18,000	15,000
Federal Highway Administration	7,316	962	2,312	6,091	547	2,096
Federal Railroad Administration	3,400	3,420	850	1,560	2,772	2,454
Department of the Treasury, total	156	157	158	156	157	158
United States Customs Service	125	125	125	125	125	125
United States Secret Service[6]	31	32	33	31	32	33
Department of Veterans Affairs	3,789	16,411	8,300	8,482	9,360	9,886

See explanatory information, if any, and SOURCE at end of table.

Table C-52. Federal funds for R&D plant, by agency: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Obligations			Outlays		
	1996	Preliminary		1996	Preliminary	
		1997	1998		1997	1998
Other agencies:						
General Services Administration	110	66	0	4,101	2,531	0
National Aeronautics & Space Administration	417,400	421,200	326,800	480,000	394,000	344,000
National Science Foundation	187,192	166,788	172,257	158,000	239,000	233,000
Smithsonian Institution	5,000	4,500	5,000	4,000	4,000	4,500

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[4] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[5] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[6] The United States Secret Service was formerly listed as the Office of Protective Research.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	1,746,117	405,110	465,356	43,868	243,090	497,753	23,425	66,081	979	455
Departments:										
Department of Agriculture, total	128,413	71,889	0	0	51,034	0	5,490	0	0	0
Agricultural Research Service[2]	67,889	67,889	0	0	0	0	0	0	0	0
Animal & Plant Hlth Inspection Svc	1,500	1,500	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[3]	56,524	0	0	0	51,034	0	5,490	0	0	0
Forest Service	2,500	2,500	0	0	0	0	0	0	0	0
Department of Commerce, total	84,481	84,481	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	84,481	84,481	0	0	0	0	0	0	0	0
Department of Defense, total	46,826	28,204	18,622	0	0	0	0	0	0	0
Department of the Army	6,168	180	5,988	0	0	0	0	0	0	0
Department of the Navy	8,037	5,657	2,380	0	0	0	0	0	0	0
Department of the Air Force	24,366	22,367	1,999	0	0	0	0	0	0	0
Defense Agencies, total	8,255	0	8,255	0	0	0	0	0	0	0
Ballistic Missile Defense Organization	8,054	0	8,054	0	0	0	0	0	0	0
Defense Logistics Agency	201	0	201	0	0	0	0	0	0	0
Department of Energy	705,895	74,568	22,262	42,368	15,914	484,496	206	66,081	0	0
Dept of Health & Human Svcs, total	133,094	107,172	0	1,500	17,598	0	6,372	0	452	0
Food & Drug Administration	5,515	5,515	0	0	0	0	0	0	0	0
Health Resources & Services Admin	700	700	0	0	0	0	0	0	0	0
National Institutes of Health[4]	126,879	100,957	0	1,500	17,598	0	6,372	0	452	0
Department of the Interior, total	1,920	210	1,708	0	0	0	0	0	2	0
Geological Survey[5]	1,160	0	1,160	0	0	0	0	0	0	0
Minerals Management Service	760	210	548	0	0	0	0	0	2	0

See explanatory information, if any, and SOURCE at end of table.

Table C-53. Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intramural [1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	31,841	20,600	7,316	0	0	0	3,400	0	525	0
Coast Guard	525	0	0	0	0	0	0	0	525	0
Federal Aviation Administration	20,600	20,600	0	0	0	0	0	0	0	0
Federal Highway Administration	7,316	0	7,316	0	0	0	0	0	0	0
Federal Railroad Administration	3,400	0	0	0	0	0	3,400	0	0	0
Department of the Treasury, total	156	31	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
United States Secret Service[6]	31	31	0	0	0	0	0	0	0	0
Department of Veterans Affairs	3,789	3,789	0	0	0	0	0	0	0	0
Other agencies:										
General Services Administration	110	0	0	0	55	0	55	0	0	0
National Aeronautics & Space Admin	417,400	9,166	407,779	0	0	0	0	0	0	455
National Science Foundation	187,192	0	7,544	0	158,489	13,257	7,902	0	0	0
Smithsonian Institution	5,000	5,000	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[5] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[6] The United States Secret Service was formerly listed as the Office of Protective Research.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1997

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	2,023,252	678,402	464,838	54,877	187,106	564,032	15,559	57,911	527	0
Departments:										
Department of Agriculture, total	155,176	89,589	0	0	59,047	0	6,540	0	0	0
Agricultural Research Service[2]	87,589	87,589	0	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[3]	65,587	0	0	0	59,047	0	6,540	0	0	0
Forest Service	2,000	2,000	0	0	0	0	0	0	0	0
Department of Commerce, total	30,051	30,051	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	30,051	30,051	0	0	0	0	0	0	0	0
Department of Defense, total	77,685	69,728	7,957	0	0	0	0	0	0	0
Department of the Army	4,029	81	3,948	0	0	0	0	0	0	0
Department of the Navy	38,207	36,033	2,174	0	0	0	0	0	0	0
Department of the Air Force	33,614	33,614	0	0	0	0	0	0	0	0
Defense Agencies, total	1,835	0	1,835	0	0	0	0	0	0	0
Ballistic Missile Defense Organization	1,635	0	1,635	0	0	0	0	0	0	0
Defense Logistics Agency	200	0	200	0	0	0	0	0	0	0
Department of Education	2,035	0	0	0	2,035	0	0	0	0	0
Department of Energy	747,182	64,199	6,525	54,877	13,083	550,572	15	57,911	0	0
Dept of Health & Human Svcs, total	372,930	372,930	0	0	0	0	0	0	0	0
Food & Drug Administration	3,386	3,386	0	0	0	0	0	0	0	0
Health Resources & Services Admin	700	700	0	0	0	0	0	0	0	0
National Institutes of Health[4]	368,844	368,844	0	0	0	0	0	0	0	0
Department of the Interior, total	6,964	202	6,760	0	0	0	0	0	2	0
Geological Survey[5]	4,960	0	4,960	0	0	0	0	0	0	0
Minerals Management Service	2,004	202	1,800	0	0	0	0	0	2	0

See explanatory information, if any, and SOURCE at end of table.

Table C-54. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1997

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	22,107	17,200	962	0	0	0	3,420	0	525	0
Coast Guard	525	0	0	0	0	0	0	0	525	0
Federal Aviation Administration	17,200	17,200	0	0	0	0	0	0	0	0
Federal Highway Administration	962	0	962	0	0	0	0	0	0	0
Federal Railroad Administration	3,420	0	0	0	0	0	3,420	0	0	0
Department of the Treasury, total	157	32	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
United States Secret Service[6]	32	32	0	0	0	0	0	0	0	0
Department of Veterans Affairs	16,411	16,411	0	0	0	0	0	0	0	0
Other agencies:										
General Services Administration	66	0	0	0	66	0	0	0	0	0
National Aeronautics & Space Admin	421,200	9,260	411,940	0	0	0	0	0	0	0
National Science Foundation	166,788	4,300	30,569	0	112,875	13,460	5,584	0	0	0
Smithsonian Institution	4,500	4,500	0	0	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[5] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[6] The United States Secret Service was formerly listed as the Office of Protective Research.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1998

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	1,754,330	508,540	372,925	53,518	120,337	671,256	6,663	20,564	527	0
Departments:										
Department of Agriculture, total	99,789	99,789	0	0	0	0	0	0	0	0
Agricultural Research Service[2]	97,789	97,789	0	0	0	0	0	0	0	0
Forest Service	2,000	2,000	0	0	0	0	0	0	0	0
Department of Commerce, total	23,392	23,392	0	0	0	0	0	0	0	0
National Inst of Standards & Tech	23,392	23,392	0	0	0	0	0	0	0	0
Department of Defense, total	87,036	77,954	9,082	0	0	0	0	0	0	0
Department of the Army	4,385	88	4,297	0	0	0	0	0	0	0
Department of the Navy	41,745	39,760	1,985	0	0	0	0	0	0	0
Department of the Air Force	38,106	38,106	0	0	0	0	0	0	0	0
Defense Agencies, total	2,800	0	2,800	0	0	0	0	0	0	0
Ballistic Missile Defense Organization	2,600	0	2,600	0	0	0	0	0	0	0
Defense Logistics Agency	200	0	200	0	0	0	0	0	0	0
Department of Education	2,035	0	0	0	2,035	0	0	0	0	0
Department of Energy	812,966	72,430	8,842	53,518	9,068	648,529	15	20,564	0	0
Dept of Health & Human Svcs, total	196,468	196,468	0	0	0	0	0	0	0	0
Food & Drug Administration	6,468	6,468	0	0	0	0	0	0	0	0
National Institutes of Health[3]	190,000	190,000	0	0	0	0	0	0	0	0
Department of the Interior, total	2,152	200	1,950	0	0	0	0	0	2	0
Geological Survey[4]	1,160	0	1,160	0	0	0	0	0	0	0
Minerals Management Service	992	200	790	0	0	0	0	0	2	0

See explanatory information, if any, and SOURCE at end of table.

Table C-55. Preliminary Federal obligations for R&D plant, by agency and performer of the research and development the plant supports: fiscal year 1998

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Intramural[1]	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Transportation, total	17,977	14,290	2,312	0	0	0	850	0	525	0
Coast Guard	525	0	0	0	0	0	0	0	525	0
Federal Aviation Administration	14,290	14,290	0	0	0	0	0	0	0	0
Federal Highway Administration	2,312	0	2,312	0	0	0	0	0	0	0
Federal Railroad Administration	850	0	0	0	0	0	850	0	0	0
Department of the Treasury, total	158	33	125	0	0	0	0	0	0	0
United States Customs Service	125	0	125	0	0	0	0	0	0	0
United States Secret Service[5]	33	33	0	0	0	0	0	0	0	0
Department of Veterans Affairs	8,300	8,300	0	0	0	0	0	0	0	0
Other agencies:										
National Aeronautics & Space Admin	326,800	7,184	319,616	0	0	0	0	0	0	0
National Science Foundation	172,257	3,500	30,998	0	109,234	22,727	5,798	0	0	0
Smithsonian Institution	5,000	5,000	0	0	0	0	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[4] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[5] The United States Secret Service was formerly listed as the Office of Protective Research.

NOTE: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-56. Federal obligations for research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	10,310,489	10,741,953	10,928,941
Life sciences, total	6,046,362	6,475,684	6,578,971
Biological (excluding environmental)	2,913,260	NA	NA
Environmental biology	197,561	NA	NA
Agricultural	139,016	NA	NA
Medical	2,597,267	NA	NA
Life sciences, n.e.c.	199,258	NA	NA
Psychology, total	245,481	259,575	265,812
Biological aspects	22,828	NA	NA
Social aspects	7,315	NA	NA
Psychological sciences, n.e.c.	215,338	NA	NA
Physical sciences, total	1,168,388	1,208,161	1,223,011
Astronomy	202,356	NA	NA
Chemistry	361,854	NA	NA
Physics	536,813	NA	NA
Physical sciences, n.e.c.	67,365	NA	NA
Environmental sciences, total	632,909	624,042	596,041
Atmospheric	160,336	NA	NA
Geological	129,484	NA	NA
Oceanography	189,438	NA	NA
Environmental sciences, n.e.c.	153,651	NA	NA
Mathematics & computer sciences, total	633,348	644,507	669,218
Mathematics	132,827	NA	NA
Computer sciences	471,555	NA	NA
Mathematics & computer sciences, n.e.c.	28,966	NA	NA
Engineering, total	1,051,262	955,230	1,017,234
Aeronautical	46,952	NA	NA
Astronautical	16,754	NA	NA
Chemical	59,137	NA	NA
Civil	44,930	NA	NA
Electrical	151,379	NA	NA
Mechanical	91,857	NA	NA
Metallurgy & materials	265,363	NA	NA
Engineering, n.e.c.	374,890	NA	NA
Social sciences, total	201,438	218,003	223,888
Economics	44,165	NA	NA
Political science	143	NA	NA
Sociology	9,630	NA	NA
Social sciences, n.e.c.	147,500	NA	NA
Other sciences, n.e.c.	331,301	356,751	354,766

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal years 1996, 1997, and 1998.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:

NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	10,310,489	6,046,362	245,481	1,168,388	632,909	633,348	1,051,262	201,438	331,301
Departments:									
Department of Agriculture, total	373,456	278,837	0	21,644	3,951	2,389	17,185	49,450	0
Agricultural Marketing Service	446	446	0	0	0	0	0	0	0
Agricultural Research Service[1]	26,475	23,866	0	0	9	2,092	508	0	0
Cooperative State Research, Education, & Extension Service[2]	330,176	244,218	0	21,644	2,877	0	16,608	44,829	0
Economic Research Service	3,020	0	0	0	0	0	0	3,020	0
Foreign Agricultural Service[3]	434	434	0	0	0	0	0	0	0
Forest Service	12,800	9,873	0	0	1,065	192	69	1,601	0
Nat'l Agricultural Statistics Svc	105	0	0	0	0	105	0	0	0
Department of Defense, total	1,037,965	111,699	19,042	108,944	110,181	273,529	413,306	33	1,231
Department of the Army	106,353	23,433	2,332	14,206	5,305	11,409	49,482	33	153
Department of the Navy	223,330	17,891	12,926	25,889	61,927	20,451	84,102	0	144
Department of the Air Force	164,325	11,151	2,578	34,211	15,010	16,211	85,164	0	0
Defense Agencies, total	543,957	59,224	1,206	34,638	27,939	225,458	194,558	0	934
Ballistic Missile Defense Organization	7,104	0	0	1,600	0	700	4,804	0	0
Defense Advanced Research Projects Agency[4]	274,650	10,758	0	1,079	790	197,088	64,690	0	245
Defense Special Weapons Agency[5]	7,157	60	0	2,937	3,000	0	471	0	689
Washington Headquarters Services[6 7 8]	255,046	48,406	1,206	29,022	24,149	27,670	124,593	0	0
Department of Energy	566,423	74,411	0	312,379	98,404	13,525	67,491	0	213
Dept of Health & Human Svcs, total	6,032,620	5,238,923	220,664	92,420	17,773	51,923	85,311	71,037	254,569
Admin for Children & Families	9,337	0	0	0	0	0	0	9,337	0
Agcy for Hlth Care Policy & Rsch	35,995	27,663	278	0	0	1,566	0	5,480	1,008
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	10,381	10,381	0	0	0	0	0	0	0
Health Care Financing Admin	5,881	5,881	0	0	0	0	0	0	0
Health Resources & Services Admin	5,913	5,913	0	0	0	0	0	0	0
National Institutes of Health[9]	5,924,352	5,150,040	220,386	92,420	17,773	50,357	85,311	54,504	253,561
Office of the Secretary, total	1,716	0	0	0	0	0	0	1,716	0
Office of the Asst Secretary, Planning & Evaluation	1,716	0	0	0	0	0	0	1,716	0

See explanatory information, if any, and SOURCE at end of table.

Table C-57. Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 2 of 2

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Other agencies:									
National Aeronautics & Space Admin	560,164	55,306	3,221	239,469	130,385	27,657	82,973	135	21,018
National Science Foundation	1,739,861	287,186	2,554	393,532	272,215	264,325	384,996	80,783	54,270

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[9] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-58. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	10,741,953	6,475,684	259,575	1,208,161	624,042	644,507	955,230	218,003	356,751
Departments:									
Department of Agriculture, total	454,307	353,169	0	25,691	4,056	877	20,602	49,912	0
Agricultural Research Service[1]	27,963	26,891	0	0	9	525	538	0	0
Cooperative State Research, Education, & Extension Service[2]	410,614	315,672	0	25,691	3,007	0	19,995	46,249	0
Economic Research Service	2,000	0	0	0	0	0	0	2,000	0
Foreign Agricultural Service[3]	500	500	0	0	0	0	0	0	0
Forest Service	13,070	10,106	0	0	1,040	192	69	1,663	0
Nat'l Agricultural Statistics Svc	160	0	0	0	0	160	0	0	0
Department of Defense, total	937,512	110,944	18,963	124,107	90,458	293,544	296,255	50	3,191
Department of the Army	110,580	43,470	2,311	12,769	4,957	10,399	36,562	50	62
Department of the Navy	211,345	15,018	10,705	25,319	57,502	16,879	85,922	0	0
Department of the Air Force	130,147	9,746	1,803	31,480	8,855	16,928	61,335	0	0
Defense Agencies, total	485,440	42,710	4,144	54,539	19,144	249,338	112,436	0	3,129
Ballistic Missile Defense Organization	6,076	0	0	3,464	0	0	2,612	0	0
Defense Advanced Research Projects Agency[4]	232,303	11,042	0	3,694	110	157,992	59,465	0	0
Defense Special Weapons Agency[5]	711	0	0	0	0	0	272	0	439
Washington Headquarters Services[6] [7]	246,350	31,668	4,144	47,381	19,034	91,346	50,087	0	2,690
Department of Energy	568,815	80,759	0	312,298	88,842	12,316	64,875	0	9,725
Dept of Health & Human Svcs, total	6,435,897	5,582,223	235,404	98,559	18,954	55,588	90,978	82,653	271,538
Administration on Aging	390	0	0	0	0	0	0	390	0
Admin for Children & Families	16,359	0	0	0	0	0	0	16,359	0
Agcy for Hlth Care Policy & Rsch	37,706	29,034	377	0	0	1,885	0	5,279	1,131
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	10,425	10,425	0	0	0	0	0	0	0
Health Care Financing Admin	5,460	5,460	0	0	0	0	0	0	0
Health Resources & Services Admin	6,090	6,090	0	0	0	0	0	0	0
National Institutes of Health[8]	6,317,922	5,492,169	235,027	98,559	18,954	53,703	90,978	58,125	270,407
Office of the Secretary, total	2,500	0	0	0	0	0	0	2,500	0
Office of the Asst Secretary, Planning & Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies:									
National Aeronautics & Space Admin	560,164	55,306	3,221	239,469	130,385	27,657	82,973	135	21,018
National Science Foundation	1,785,258	293,283	1,987	408,037	291,347	254,525	399,547	85,253	51,279

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1997.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-59. Preliminary Federal obligations for research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	10,928,941	6,578,971	265,812	1,223,011	596,041	669,218	1,017,234	223,888	354,766
Departments:									
Department of Agriculture, total	414,895	324,557	0	22,958	3,405	929	18,628	44,418	0
Agricultural Research Service[1]	25,415	24,311	0	0	9	577	518	0	0
Cooperative State Research, Education, & Extension Service[2]	372,750	289,640	0	22,958	2,356	0	18,041	39,755	0
Economic Research Service	3,000	0	0	0	0	0	0	3,000	0
Foreign Agricultural Service[3]	500	500	0	0	0	0	0	0	0
Forest Service	13,070	10,106	0	0	1,040	192	69	1,663	0
Nat'l Agricultural Statistics Svc	160	0	0	0	0	160	0	0	0
Department of Defense, total	949,405	79,757	18,386	114,997	94,712	275,830	364,990	56	677
Department of the Army	98,904	23,790	1,588	15,261	5,570	11,070	41,446	56	123
Department of the Navy	226,895	17,000	12,690	30,346	61,164	19,881	85,814	0	0
Department of the Air Force	126,488	10,766	1,862	30,989	8,882	16,974	57,015	0	0
Defense Agencies, total	497,118	28,201	2,246	38,401	19,096	227,905	180,715	0	554
Ballistic Missile Defense Organization	6,450	0	0	1,700	0	700	4,050	0	0
Defense Advanced Research Projects Agency[4]	237,640	260	0	4,538	0	173,402	59,440	0	0
Defense Special Weapons Agency[5]	702	0	0	0	0	0	148	0	554
Washington Headquarters Services[6] [7]	252,326	27,941	2,246	32,163	19,096	53,803	117,077	0	0
Department of Energy	528,437	78,095	0	306,913	69,634	16,234	57,561	0	0
Dept of Health & Human Svcs, total	6,621,013	5,737,233	241,772	101,229	19,467	57,061	93,442	91,937	278,872
Admin for Children & Families	24,408	0	0	0	0	0	0	24,408	0
Agcy for Hlth Care Policy & Rsch	38,073	29,316	381	0	0	1,904	0	5,330	1,142
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	16,288	16,288	0	0	0	0	0	0	0
Health Care Financing Admin	5,590	5,590	0	0	0	0	0	0	0
Health Resources & Services Admin	6,090	6,090	0	0	0	0	0	0	0
National Institutes of Health[8]	6,489,019	5,640,904	241,391	101,229	19,467	55,157	93,442	59,699	277,730
Office of the Secretary, total	2,500	0	0	0	0	0	0	2,500	0
Office of the Asst Secretary, Planning & Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies:									
National Aeronautics & Space Admin	560,164	55,306	3,221	239,806	130,385	27,320	82,973	135	21,018
National Science Foundation	1,855,027	304,023	2,433	437,108	278,438	291,844	399,640	87,342	54,199

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-60. Federal obligations for research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	245,481	22,828	7,315	215,338	6,046,362	2,913,260	197,561	139,016	2,597,267	199,258
Departments:										
Department of Agriculture, total	0	0	0	0	278,837	72,153	60,189	137,588	8,896	11
Agricultural Marketing Service	0	0	0	0	446	0	0	446	0	0
Agricultural Research Service[1]	0	0	0	0	23,866	5,892	847	17,116	0	11
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	244,218	59,521	56,209	119,592	8,896	0
Foreign Agricultural Service[3]	0	0	0	0	434	0	0	434	0	0
Forest Service	0	0	0	0	9,873	6,740	3,133	0	0	0
Department of Defense, total	19,042	14,182	2,499	2,361	111,699	27,458	19,378	0	58,849	6,014
Department of the Army	2,332	0	2,284	48	23,433	3,030	0	0	20,317	86
Department of the Navy	12,926	11,826	0	1,100	17,891	6,599	5,279	0	5,453	560
Department of the Air Force	2,578	1,150	215	1,213	11,151	6,692	4,406	0	0	53
Defense Agencies, total	1,206	1,206	0	0	59,224	11,137	9,693	0	33,079	5,315
Defense Advanced Research Projects Agency[4]	0	0	0	0	10,758	2,987	0	0	7,771	0
Defense Special Weapons Agency[5]	0	0	0	0	60	60	0	0	0	0
Washington Headquarters Services[6] [7] [8]	1,206	1,206	0	0	48,406	8,090	9,693	0	25,308	5,315
Department of Energy	0	0	0	0	74,411	56,186	50	0	17,179	996
Dept of Health & Human Svcs, total	220,664	8,294	3,832	208,538	5,238,923	2,519,814	42,063	0	2,505,142	171,904
Agcy for Hlth Care Policy & Rsch	278	0	278	0	27,663	0	0	0	26,460	1,203
Centers for Disease Control & Prevention	0	0	0	0	39,045	0	0	0	39,045	0
Food & Drug Administration	0	0	0	0	10,381	10,258	0	0	0	123
Health Care Financing Admin	0	0	0	0	5,881	0	0	0	0	5,881
Health Resources & Services Admin	0	0	0	0	5,913	0	0	0	5,913	0
National Institutes of Health[9]	220,386	8,294	3,554	208,538	5,150,040	2,509,556	42,063	0	2,433,724	164,697
Other agencies:										
National Aeronautics & Space Admin	3,221	0	118	3,103	55,306	28,981	1,919	1,428	7,201	15,777
National Science Foundation	2,554	352	866	1,336	287,186	208,668	73,962	0	0	4,556

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[9] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-61. Federal obligations for research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,168,388	202,356	361,854	536,813	67,365	632,909	160,336	129,484	189,438	153,651
Departments:										
Department of Agriculture, total	21,644	0	21,644	0	0	3,951	3,653	289	0	9
Agricultural Research Service[1]	0	0	0	0	0	9	0	0	0	9
Cooperative State Research, Education, & Extension Service[2]	21,644	0	21,644	0	0	2,877	2,877	0	0	0
Forest Service	0	0	0	0	0	1,065	776	289	0	0
Department of Defense, total	108,944	1,453	60,560	36,316	10,615	110,181	25,329	15,621	47,569	21,662
Department of the Army	14,206	0	6,819	6,772	615	5,305	1,725	1,067	0	2,513
Department of the Navy	25,889	0	11,718	8,892	5,279	61,927	10,198	3,300	38,041	10,388
Department of the Air Force	34,211	1,000	21,512	11,695	4	15,010	6,639	8,371	0	0
Defense Agencies, total	34,638	453	20,511	8,957	4,717	27,939	6,767	2,883	9,528	8,761
Ballistic Missile Defense Organization	1,600	0	591	909	100	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	1,079	0	179	900	0	790	0	726	64	0
Defense Special Weapons Agency[4]	2,937	0	0	0	2,937	3,000	0	0	0	3,000
Washington Headquarters Services[5] [6] [7]	29,022	453	19,741	7,148	1,680	24,149	6,767	2,157	9,464	5,761
Department of Energy	312,379	0	47,749	263,969	661	98,404	20,629	25,305	3,350	49,120
Dept of Health & Human Svcs, total	92,420	0	82,349	10,071	0	17,773	0	0	0	17,773
National Institutes of Health[8]	92,420	0	82,349	10,071	0	17,773	0	0	0	17,773
Other agencies:										
National Aeronautics & Space Admin	239,469	151,158	3,123	57,110	28,078	130,385	50,546	17,186	10,766	51,887
National Science Foundation	393,532	49,745	146,429	169,347	28,011	272,215	60,179	71,083	127,753	13,200

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The research obligations of the six agencies included in this table represent approximately 97 percent of total Federal research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-62. Federal obligations for research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Aeronautical	Astronautical	Chemical	Civil	Electrical	Mechanical	Metallurgy and materials	Engineering, n.e.c.
Total, all agencies	1,051,262	46,952	16,754	59,137	44,930	151,379	91,857	265,363	374,890
Departments:									
Department of Agriculture, total	17,185	0	0	0	0	0	0	0	17,185
Agricultural Research Service[1]	508	0	0	0	0	0	0	0	508
Cooperative State Research, Education, & Extension Service[2]	16,608	0	0	0	0	0	0	0	16,608
Forest Service	69	0	0	0	0	0	0	0	69
Department of Defense, total	413,306	21,500	5,124	5,086	5,780	99,727	61,714	127,549	86,826
Department of the Army	49,482	2,405	2,298	1,358	3,614	17,019	7,476	9,562	5,750
Department of the Navy	84,102	1,713	0	206	0	21,606	16,222	22,552	21,803
Department of the Air Force	85,164	9,729	2,826	0	658	19,233	11,531	24,187	17,000
Defense Agencies, total	194,558	7,653	0	3,522	1,508	41,869	26,485	71,248	42,273
Ballistic Missile Defense Organization	4,804	1,175	0	100	0	1,129	0	2,400	0
Defense Advanced Research Projects Agency[3]	64,690	0	0	0	0	4,814	0	37,857	22,019
Defense Special Weapons Agency[4]	471	0	0	0	0	120	301	0	50
Washington Headquarters Services[5] [6] [7]	124,593	6,478	0	3,422	1,508	35,806	26,184	30,991	20,204
Department of Energy	67,491	0	0	14,237	3,433	2,169	11,232	20,719	15,701
Dept of Health & Human Svcs, total	85,311	0	0	0	0	0	0	0	85,311
National Institutes of Health[8]	85,311	0	0	0	0	0	0	0	85,311
Other agencies:									
National Aeronautics & Space Admin	82,973	25,452	11,630	1,804	185	9,220	11,697	12,855	10,130
National Science Foundation	384,996	0	0	38,010	35,532	40,263	7,214	104,240	159,737

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KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-63. Federal obligations for research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	633,348	132,827	471,555	28,966	201,438	0	44,165	143	9,630	147,500
Departments:										
Department of Agriculture, total	2,389	297	2,092	0	49,450	0	41,905	0	7,545	0
Agricultural Research Service[1]	2,092	0	2,092	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	44,829	0	37,643	0	7,186	0
Economic Research Service	0	0	0	0	3,020	0	3,020	0	0	0
Forest Service	192	192	0	0	1,601	0	1,242	0	359	0
Nat'l Agricultural Statistics Svc	105	105	0	0	0	0	0	0	0	0
Department of Defense, total	273,529	34,410	227,536	11,583	33	0	20	0	13	0
Department of the Army	11,409	3,733	3,789	3,887	33	0	20	0	13	0
Department of the Navy	20,451	9,239	11,212	0	0	0	0	0	0	0
Department of the Air Force	16,211	11,096	2,954	2,161	0	0	0	0	0	0
Defense Agencies, total	225,458	10,342	209,581	5,535	0	0	0	0	0	0
Ballistic Missile Defense Organization	700	200	300	200	0	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	197,088	1,952	195,082	54	0	0	0	0	0	0
Washington Headquarters Services[4 5 6]	27,670	8,190	14,199	5,281	0	0	0	0	0	0
Department of Energy	13,525	0	4,106	9,419	0	0	0	0	0	0
Dept of Health & Human Svcs, total	51,923	24,297	27,626	0	71,037	0	2,126	143	1,435	67,333
Admin for Children & Families	0	0	0	0	9,337	0	0	0	0	9,337
Agcy for Hlth Care Policy & Rsch	1,566	7	1,559	0	5,480	0	2,126	143	1,435	1,776
National Institutes of Health[7]	50,357	24,290	26,067	0	54,504	0	0	0	0	54,504
Office of the Secretary, total	0	0	0	0	1,716	0	0	0	0	1,716
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	1,716	0	0	0	0	1,716
Other agencies:										
National Aeronautics & Space Admin	27,657	641	21,677	5,339	135	0	0	0	19	116
National Science Foundation	264,325	73,182	188,518	2,625	80,783	0	114	0	618	80,051

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Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-64. Federal obligations for basic research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	7,375,642	7,652,712	7,84[illegible],584
Life sciences, total	4,039,504	4,294,287	4,412,097
Biological (excluding environmental)	2,033,096	NA	NA
Environmental biology	135,466	NA	NA
Agricultural	64,430	NA	NA
Medical	1,674,281	NA	NA
Life sciences, n.e.c.	132,231	NA	NA
Psychology, total	168,413	178,095	181,815
Biological aspects	19,390	NA	NA
Social aspects	4,647	NA	NA
Psychological sciences, n.e.c.	144,376	NA	NA
Physical sciences, total	1,039,242	1,089,695	1,086,785
Astronomy	182,191	NA	NA
Chemistry	300,077	NA	NA
Physics	500,159	NA	NA
Physical sciences, n.e.c.	56,815	NA	NA
Environmental sciences, total	588,453	567,996	560,822
Atmospheric	153,800	NA	NA
Geological	121,725	NA	NA
Oceanography	182,003	NA	NA
Environmental sciences, n.e.c.	130,925	NA	NA
Mathematics & computer sciences, total	414,540	465,081	467,225
Mathematics	121,948	NA	NA
Computer sciences	273,247	NA	NA
Mathematics & computer sciences, n.e.c.	19,345	NA	NA
Engineering, total	764,461	683,277	748,259
Aeronautical	39,388	NA	NA
Astronautical	14,792	NA	NA
Chemical	36,536	NA	NA
Civil	33,958	NA	NA
Electrical	129,557	NA	NA
Mechanical	82,511	NA	NA
Metallurgy & materials	206,602	NA	NA
Engineering, n.e.c.	221,117	NA	NA
Social sciences, total	122,611	127,292	131,398
Economics	11,724	NA	NA
Sociology	2,950	NA	NA
Social sciences, n.e.c.	107,937	NA	NA
Other sciences, n.e.c.	238,418	246,989	254,183

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Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:

NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-65. Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,375,642	4,039,504	168,413	1,039,242	588,453	414,540	764,461	122,611	238,418
Departments:									
Department of Agriculture, total	155,643	125,646	0	8,414	1,594	1,297	4,704	13,988	0
Agricultural Research Service[1]	15,540	14,009	0	0	5	1,228	298	0	0
Cooperative State Research, Education, & Extension Service[2]	135,227	108,194	0	8,414	1,189	0	4,381	13,049	0
Economic Research Service	302	0	0	0	0	0	0	302	0
Foreign Agricultural Service[3]	214	214	0	0	0	0	0	0	0
Forest Service	4,360	3,229	0	0	400	69	25	637	0
Department of Defense, total	645,661	69,287	17,741	90,642	90,661	85,671	291,373	0	286
Department of the Army	72,035	7,314	1,706	13,360	3,958	9,002	36,553	0	142
Department of the Navy	184,052	16,717	12,539	25,796	53,674	20,018	55,164	0	144
Department of the Air Force	137,381	10,987	2,290	30,215	14,641	15,473	63,775	0	0
Defense Agencies, total	252,193	34,269	1,206	21,271	18,388	41,178	135,881	0	0
Ballistic Missile Defense Organization	3,064	0	0	1,400	0	0	1,664	0	0
Defense Advanced Research Projects Agency[4]	37,903	1,149	0	179	0	18,789	17,786	0	0
Washington Headquarters Services[5] [6] [7]	211,226	33,120	1,206	19,692	18,388	22,389	116,431	0	0
Department of Energy	488,802	56,822	0	286,936	92,418	13,525	38,994	0	107
Dept of Health & Human Svcs, total	3,991,923	3,470,179	148,500	62,274	11,976	33,931	57,484	36,726	170,853
National Institutes of Health[8]	3,991,923	3,470,179	148,500	62,274	11,976	33,931	57,484	36,726	170,853
Other agencies:									
National Aeronautics & Space Admin	478,446	41,585	1,680	212,119	122,154	22,130	61,559	135	17,084
National Science Foundation	1,615,167	275,985	492	378,857	269,650	257,986	310,347	71,762	50,088

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[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-66. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,652,712	4,294,287	178,095	1,089,695	567,996	465,081	683,277	127,292	246,989
Departments:									
Department of Agriculture, total	204,449	170,987	0	10,607	1,700	300	5,944	14,911	0
Agricultural Research Service[1]	16,286	15,735	0	0	5	231	315	0	0
Cooperative State Research, Education, & Extension Service[2]	182,823	150,980	0	10,607	1,320	0	5,604	14,312	0
Foreign Agricultural Service[3]	230	230	0	0	0	0	0	0	0
Forest Service	5,110	4,042	0	0	375	69	25	599	0
Department of Defense, total	580,866	43,023	17,370	106,942	75,103	148,609	189,819	0	0
Department of the Army	59,179	5,826	1,358	12,668	2,987	8,900	27,440	0	0
Department of the Navy	168,888	13,687	10,266	25,214	46,446	16,389	56,886	0	0
Department of the Air Force	100,202	9,709	1,602	27,061	8,855	16,259	36,716	0	0
Defense Agencies, total	252,597	13,801	4,144	41,999	16,815	107,061	68,777	0	0
Ballistic Missile Defense Organization	3,464	0	0	3,464	0	0	0	0	0
Defense Advanced Research Projects Agency[4]	39,778	0	0	197	0	17,749	21,832	0	0
Washington Headquarters Services[5] [6]	209,355	13,801	4,144	38,338	16,815	89,312	46,945	0	0
Department of Energy	471,414	51,597	0	286,171	83,152	12,316	38,178	0	0
Dept of Health & Human Svcs, total	4,261,611	3,704,618	158,532	66,481	12,785	36,224	61,367	39,207	182,397
National Institutes of Health[7]	4,261,611	3,704,618	158,532	66,481	12,785	36,224	61,367	39,207	182,397
Other agencies:									
National Aeronautics & Space Admin	478,446	41,585	1,680	212,119	122,154	22,130	61,559	135	17,084
National Science Foundation	1,655,926	282,477	513	407,375	273,102	245,502	326,410	73,039	47,508

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1997.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

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Table C-67. Preliminary Federal obligations for basic research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	7,842,584	4,412,097	181,815	1,086,785	560,822	467,225	748,259	131,398	254,183
Departments:									
Department of Agriculture, total	192,323	161,839	0	9,802	1,449	323	5,557	13,353	0
Agricultural Research Service [1]	14,802	14,239	0	0	5	254	304	0	0
Cooperative State Research, Education, & Extension Service [2]	172,181	143,328	0	9,802	1,069	0	5,228	12,754	0
Foreign Agricultural Service [3]	230	230	0	0	0	0	0	0	0
Forest Service	5,110	4,042	0	0	375	69	25	599	0
Department of Defense, total	615,051	47,650	16,859	99,010	85,141	107,556	258,835	0	0
Department of the Army	67,504	6,853	521	15,166	3,624	9,407	31,933	0	0
Department of the Navy	190,485	16,425	12,319	30,257	56,136	19,667	55,681	0	0
Department of the Air Force	100,205	10,743	1,773	27,098	8,882	16,309	35,400	0	0
Defense Agencies, total	256,857	13,629	2,246	26,489	16,499	62,173	135,821	0	0
Ballistic Missile Defense Organization	1,915	0	0	1,500	0	0	415	0	0
Defense Advanced Research Projects Agency [4]	32,982	0	0	225	0	10,750	22,007	0	0
Washington Headquarters Services [5] [6]	221,960	13,629	2,246	24,764	16,499	51,423	113,399	0	0
Department of Energy	459,846	65,218	0	276,711	63,405	16,234	38,278	0	0
Dept of Health & Human Svcs, total	4,374,663	3,802,894	162,737	68,245	13,124	37,185	62,995	40,247	187,236
National Institutes of Health [7]	4,374,663	3,802,894	162,737	68,245	13,124	37,185	62,995	40,247	187,236
Other agencies:									
National Aeronautics & Space Admin	478,446	41,585	1,680	212,456	122,154	21,793	61,559	135	17,084
National Science Foundation	1,722,255	292,911	539	420,561	275,549	284,134	321,035	77,663	49,863

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1998.

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KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-68. Federal obligations for basic research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	168,413	19,390	4,647	144,376	4,039,504	2,033,096	135,466	64,430	1,674,281	132,231
Departments:										
Department of Agriculture, total	0	0	0	0	125,646	38,019	19,515	63,795	4,311	6
Agricultural Research Service[1]	0	0	0	0	14,009	3,459	497	10,047	0	6
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	108,194	32,454	17,895	53,534	4,311	0
Foreign Agricultural Service[3]	0	0	0	0	214	0	0	214	0	0
Forest Service	0	0	0	0	3,229	2,106	1,123	0	0	0
Department of Defense, total	17,741	13,785	1,658	2,298	69,287	22,543	19,378	0	25,086	2,280
Department of the Army	1,706	0	1,658	48	7,314	2,723	0	0	4,505	86
Department of the Navy	12,539	11,439	0	1,100	16,717	6,599	5,279	0	4,839	0
Department of the Air Force	2,290	1,140	0	1,150	10,987	6,581	4,406	0	0	0
Defense Agencies, total	1,206	1,206	0	0	34,269	6,640	9,693	0	15,742	2,194
Defense Advanced Research Projects Agency[4]	0	0	0	0	1,149	1,015	0	0	134	0
Washington Headquarters Services[5] [6] [7]	1,206	1,206	0	0	33,120	5,625	9,693	0	15,608	2,194
Department of Energy	0	0	0	0	56,822	55,776	50	0	0	996
Dept of Health & Human Svcs, total	148,500	5,589	2,395	140,516	3,470,179	1,690,979	28,343	0	1,639,882	110,975
National Institutes of Health[8]	148,500	5,589	2,395	140,516	3,470,179	1,690,979	28,343	0	1,639,882	110,975
Other agencies:										
National Aeronautics & Space Admin	1,680	0	118	1,562	41,585	19,725	1,879	635	5,002	14,344
National Science Foundation	492	16	476	0	275,985	206,054	66,301	0	0	3,630

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[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

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KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-69. Federal obligations for basic research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	1,039,242	182,191	300,077	500,159	56,815	588,453	153,800	121,725	182,003	130,925
Departments:										
Department of Agriculture, total	8,414	0	8,414	0	0	1,594	1,499	90	0	5
Agricultural Research Service[1]	0	0	0	0	0	5	0	0	0	5
Cooperative State Research, Education, & Extension Service[2]	8,414	0	8,414	0	0	1,189	1,189	0	0	0
Forest Service	0	0	0	0	0	400	310	90	0	0
Department of Defense, total	90,642	1,453	51,005	32,290	5,894	90,661	24,441	14,789	42,020	9,411
Department of the Army	13,360	0	6,012	6,733	615	3,958	1,725	961	0	1,272
Department of the Navy	25,796	0	11,718	8,799	5,279	53,674	9,679	3,300	32,556	8,139
Department of the Air Force	30,215	1,000	20,514	8,701	0	14,641	6,270	8,371	0	0
Defense Agencies, total	21,271	453	12,761	8,057	0	18,388	6,767	2,157	9,464	0
Ballistic Missile Defense Organization	1,400	0	491	909	0	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	179	0	179	0	0	0	0	0	0	0
Washington Headquarters Services[4] [5] [6]	19,692	453	12,091	7,148	0	18,388	6,767	2,157	9,464	0
Department of Energy	286,936	0	43,314	243,612	10	92,418	20,629	19,938	3,350	48,501
Dept of Health & Human Svcs, total	62,274	0	55,488	6,786	0	11,976	0	0	0	11,976
National Institutes of Health[7]	62,274	0	55,488	6,786	0	11,976	0	0	0	11,976
Other agencies:										
National Aeronautics & Space Admin	212,119	131,010	2,898	52,006	26,205	122,154	47,074	17,036	10,168	47,876
National Science Foundation	378,857	49,728	138,958	165,465	24,706	269,650	60,157	69,872	126,465	13,156

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[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

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KEY: n.e.c. = Not elsewhere classified

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Table C-70. Federal obligations for basic research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	764,461	39,388	14,792	36,536	33,958	129,557	82,511	206,602	221,117
Departments:									
Department of Agriculture, total	4,704	0	0	0	0	0	0	0	4,704
Agricultural Research Service[1]	298	0	0	0	0	0	0	0	298
Cooperative State Research, Education, & Extension Service[2]	4,381	0	0	0	0	0	0	0	4,381
Forest Service	25	0	0	0	0	0	0	0	25
Department of Defense, total	291,373	18,890	4,325	4,526	3,183	83,381	55,455	76,870	44,743
Department of the Army	36,553	2,250	2,000	1,104	1,675	15,664	4,901	8,875	84
Department of the Navy	55,164	0	0	0	0	13,275	14,958	15,838	11,093
Department of the Air Force	63,775	8,987	2,325	0	0	15,855	9,412	10,196	17,000
Defense Agencies, total	135,881	7,653	0	3,422	1,508	38,587	26,184	41,961	16,566
Ballistic Missile Defense Organization	1,664	1,175	0	0	0	489	0	0	0
Defense Advanced Research Projects Agency[3]	17,786	0	0	0	0	2,292	0	10,970	4,524
Washington Headquarters Services[4] [5] [6]	116,431	6,478	0	3,422	1,508	35,806	26,184	30,991	12,042
Department of Energy	38,994	0	0	2,638	31	0	11,213	20,391	4,721
Dept of Health & Human Svcs, total	57,484	0	0	0	0	0	0	0	57,484
National Institutes of Health[7]	57,484	0	0	0	0	0	0	0	57,484
Other agencies:									
National Aeronautics & Space Admin	61,559	20,498	10,467	1,546	145	6,666	9,792	6,731	5,714
National Science Foundation	310,347	0	0	27,826	30,599	39,510	6,051	102,610	103,751

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-71. Federal obligations for basic research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	414,540	121,948	273,247	19,345	122,611	0	11,724	0	2,950	107,937
Departments:										
Department of Agriculture, total	1,297	69	1,228	0	13,988	0	11,610	0	2,378	0
Agricultural Research Service[1]	1,228	0	1,228	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	13,049	0	10,793	0	2,256	0
Economic Research Service	0	0	0	0	302	0	302	0	0	0
Forest Service	69	69	0	0	637	0	515	0	122	0
Department of Defense, total	85,671	32,088	49,652	3,931	0	0	0	0	0	0
Department of the Army	9,002	3,655	3,498	1,849	0	0	0	0	0	0
Department of the Navy	20,018	9,239	10,779	0	0	0	0	0	0	0
Department of the Air Force	15,473	11,004	2,387	2,082	0	0	0	0	0	0
Defense Agencies, total	41,178	8,190	32,988	0	0	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	18,789	0	18,789	0	0	0	0	0	0	0
Washington Headquarters Services[4 5 6]	22,389	8,190	14,199	0	0	0	0	0	0	0
Department of Energy	13,525	0	4,106	9,419	0	0	0	0	0	0
Dept of Health & Human Svcs, total	33,931	16,367	17,564	0	36,726	0	0	0	0	36,726
National Institutes of Health[7]	33,931	16,367	17,564	0	36,726	0	0	0	0	36,726
Other agencies:										
National Aeronautics & Space Admin	22,130	541	17,197	4,392	135	0	0	0	19	116
National Science Foundation	257,986	72,883	183,500	1,603	71,762	0	114	0	553	71,095

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[5] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[6] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The basic research obligations of the six agencies included in this table represent approximately 99 percent of total Federal basic research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-72. Federal obligations for applied research performed at universities and colleges for selected agencies, by detailed field of science and engineering: fiscal years 1996, 1997, and 1998

[Dollars in thousands]

Page 1 of 1

Field of science and engineering	1996	Preliminary	
		1997	1998
Total, all fields	2,934,847	3,089,241	3,086,357
Life sciences, total	2,006,858	2,181,397	2,166,874
Biological (excluding environmental)	880,164	NA	NA
Environmental biology	62,095	NA	NA
Agricultural	74,586	NA	NA
Medical	922,986	NA	NA
Life sciences, n.e.c.	67,027	NA	NA
Psychology, total	77,068	81,480	83,997
Biological aspects	3,438	NA	NA
Social aspects	2,668	NA	NA
Psychological sciences, n.e.c.	70,962	NA	NA
Physical sciences, total	129,146	118,466	136,226
Astronomy	20,165	NA	NA
Chemistry	61,777	NA	NA
Physics	36,654	NA	NA
Physical sciences, n.e.c.	10,550	NA	NA
Environmental sciences, total	44,456	56,046	35,219
Atmospheric	6,536	NA	NA
Geological	7,759	NA	NA
Oceanography	7,435	NA	NA
Environmental sciences, n.e.c.	22,726	NA	NA
Mathematics & computer sciences, total	218,808	179,426	201,993
Mathematics	10,879	NA	NA
Computer sciences	198,308	NA	NA
Mathematics & computer sciences, n.e.c.	9,621	NA	NA
Engineering, total	286,801	271,953	268,975
Aeronautical	7,564	NA	NA
Astronautical	1,962	NA	NA
Chemical	22,601	NA	NA
Civil	10,972	NA	NA
Electrical	21,822	NA	NA
Mechanical	9,346	NA	NA
Metallurgy & materials	58,761	NA	NA
Engineering, n.e.c.	153,773	NA	NA
Social sciences, total	78,827	90,711	92,490
Economics	32,441	NA	NA
Political science	143	NA	NA
Sociology	6,680	NA	NA
Social sciences, n.e.c.	39,563	NA	NA
Other sciences, n.e.c.	92,883	109,762	100,583

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal years 1996, 1997, and 1998.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:

NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-73. Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	2,934,847	2,006,858	77,068	129,146	44,456	218,808	286,801	78,827	92,883
Departments									
Department of Agriculture, total	217,813	153,191	0	13,230	2,357	1,092	12,481	35,462	0
Agricultural Marketing Service	446	446	0	0	0	0	0	0	0
Agricultural Research Service[1]	10,935	9,857	0	0	4	864	210	0	0
Cooperative State Research, Education, & Extension Service[2]	194,949	136,024	0	13,230	1,688	0	12,227	31,780	0
Economic Research Service	2,718	0	0	0	0	0	0	2,718	0
Foreign Agricultural Service[3]	220	220	0	0	0	0	0	0	0
Forest Service	8,440	6,644	0	0	665	123	44	964	0
Nat'l Agricultural Statistics Svc	105	0	0	0	0	105	0	0	0
Department of Defense, total	392,304	42,412	1,301	18,302	19,520	187,858	121,933	33	945
Department of the Army	34,318	16,119	626	846	1,347	2,407	12,929	33	11
Department of the Navy	39,278	1,174	387	93	8,253	433	28,938	0	0
Department of the Air Force	26,944	164	288	3,996	369	738	21,389	0	0
Defense Agencies, total	291,764	24,955	0	13,367	9,551	184,280	58,677	0	934
Ballistic Missile Defense Organization	4,040	0	0	200	0	700	3,140	0	0
Defense Advanced Research Projects Agency[4]	236,747	9,609	0	900	790	178,299	46,904	0	245
Defense Special Weapons Agency[5]	7,157	60	0	2,937	3,000	0	471	0	689
Washington Headquarters Services[6, 7]	43,820	15,286	0	9,330	5,761	5,281	8,162	0	0
Department of Energy	77,621	17,589	0	25,443	5,986	0	28,497	0	106
Dept of Health & Human Svcs, total	2,040,697	1,768,744	72,164	30,146	5,797	17,992	27,827	34,311	83,716
Admin for Children & Families	9,337	0	0	0	0	0	0	9,337	0
Agcy for Hlth Care Policy & Rsch	35,995	27,663	278	0	0	1,566	0	5,480	1,008
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	10,381	10,381	0	0	0	0	0	0	0
Health Care Financing Admin	5,881	5,881	0	0	0	0	0	0	0
Health Resources & Services Admin	5,913	5,913	0	0	0	0	0	0	0
National Institutes of Health[8]	1,932,429	1,679,861	71,886	30,146	5,797	16,426	27,827	17,778	82,708
Office of the Secretary, total	1,716	0	0	0	0	0	0	1,716	0
Office of the Asst Secretary, Planning & Evaluation	1,716	0	0	0	0	0	0	1,716	0
Other agencies:									
National Aeronautics & Space Admin	81,718	13,721	1,541	27,350	8,231	5,527	21,414	0	3,934
National Science Foundation	124,694	11,201	2,062	14,675	2,565	6,339	74,649	9,021	4,182

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-74. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1997

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences, n.e.c.
Total, all agencies	3,089,241	2,181,397	81,480	118,466	56,046	179,426	271,953	90,711	109,762
Departments:									
Department of Agriculture, total	249,858	182,182	0	15,084	2,356	577	14,658	35,001	0
Agricultural Research Service[1]	11,677	11,156	0	0	4	294	223	0	0
Cooperative State Research, Education, & Extension Service[2]	227,791	164,692	0	15,084	1,687	0	14,391	31,937	0
Economic Research Service	2,000	0	0	0	0	0	0	2,000	0
Foreign Agricultural Service[3]	270	270	0	0	0	0	0	0	0
Forest Service	7,960	6,064	0	0	665	123	44	1,064	0
Nat'l Agricultural Statistics Svc	160	0	0	0	0	160	0	0	0
Department of Defense, total	356,646	67,921	1,593	17,165	15,355	144,935	106,436	50	3,191
Department of the Army	51,401	37,644	953	101	1,970	1,499	9,122	50	62
Department of the Navy	42,457	1,331	439	105	11,056	490	29,036	0	0
Department of the Air Force	29,945	37	201	4,419	0	669	24,619	0	0
Defense Agencies, total	232,843	28,909	0	12,540	2,329	142,277	43,659	0	3,129
Ballistic Missile Defense Organization	2,612	0	0	0	0	0	2,612	0	0
Defense Advanced Research Projects Agency[4]	192,525	11,042	0	3,497	110	140,243	37,633	0	0
Defense Special Weapons Agency[5]	711	0	0	0	0	0	272	0	439
Washington Headquarters Services[6, 7]	36,995	17,867	0	9,043	2,219	2,034	3,142	0	2,690
Department of Energy	97,401	29,162	0	26,127	5,690	0	26,697	0	9,725
Dept of Health & Human Svcs, total	2,174,286	1,877,605	76,872	32,078	6,169	19,364	29,611	43,446	89,141
Administration on Aging	390	0	0	0	0	0	0	390	0
Admin for Children & Families	16,359	0	0	0	0	0	0	16,359	0
Agcy for Hlth Care Policy & Rsch	37,706	29,034	377	0	0	1,885	0	5,279	1,131
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	10,425	10,425	0	0	0	0	0	0	0
Health Care Financing Admin	5,460	5,460	0	0	0	0	0	0	0
Health Resources & Services Admin	6,090	6,090	0	0	0	0	0	0	0
National Institutes of Health[8]	2,056,311	1,787,551	76,495	32,078	6,169	17,479	29,611	18,918	88,010
Office of the Secretary, total	2,500	0	0	0	0	0	0	2,500	0
Office of the Asst Secretary, Planning & Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies:									
National Aeronautics & Space Admin	81,718	13,721	1,541	27,350	8,231	5,527	21,414	0	3,934
National Science Foundation	129,332	10,806	1,474	662	18,245	9,023	73,137	12,214	3,771

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services, the National Aeronautics and Space Administration, and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1997.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development, Fiscal Years 1996, 1997, and 1998.

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Table C-75. Preliminary Federal obligations for applied research performed at universities and colleges, by selected agency and field of science and engineering: fiscal year 1998

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Total	Life sciences	Psy-' chology	Physical sciences	Environ-mental sciences	Mathe-matics and com-puter sciences	Engi-neering	Social sciences	Other sciences, n.e.c.
Total, all agencies	3,086,357	2,166,874	83,997	136,226	35,219	201,993	268,975	92,490	100,583
Departments:									
Department of Agriculture, total	222,572	162,718	0	13,156	1,956	606	13,071	31,065	0
Agricultural Research Service[1]	10,613	10,072	0	0	4	323	214	0	0
Cooperative State Research, Education, & Extension Service[2]	200,569	146,312	0	13,156	1,287	0	12,813	27,001	0
Economic Research Service	3,000	0	0	0	0	0	0	3,000	0
Foreign Agricultural Service[3]	270	270	0	0	0	0	0	0	0
Forest Service	7,960	6,064	0	0	665	123	44	1,064	0
Nat'l Agricultural Statistics Svc	160	0	0	0	0	160	0	0	0
Department of Defense, total	334,354	32,107	1,527	15,987	9,571	168,274	106,155	56	677
Department of the Army	31,400	16,937	1,067	95	1,946	1,663	9,513	56	123
Department of the Navy	36,410	575	371	89	5,028	214	30,133	0	0
Department of the Air Force	26,283	23	89	3,891	0	665	21,615	0	0
Defense Agencies, total	240,261	14,572	0	11,912	2,597	165,732	44,894	0	554
Ballistic Missile Defense Organization	4,535	0	0	200	0	700	3,635	0	0
Defense Advanced Research Projects Agency[4]	204,658	260	0	4,313	0	162,652	37,433	0	0
Defense Special Weapons Agency[5]	702	0	0	0	0	0	148	0	554
Washington Headquarters Services[6] [7]	30,366	14,312	0	7,399	2,597	2,380	3,678	0	0
Department of Energy	68,591	12,877	0	30,202	6,229	0	19,283	0	0
Dept of Health & Human Svcs, total	2,246,350	1,934,339	79,035	32,984	6,343	19,876	30,447	51,690	91,636
Admin for Children & Families	24,408	0	0	0	0	0	0	24,408	0
Agcy for Hlth Care Policy & Rsch	38,073	29,316	381	0	0	1,904	0	5,330	1,142
Centers for Disease Control & Prevention	39,045	39,045	0	0	0	0	0	0	0
Food & Drug Administration	16,288	16,288	0	0	0	0	0	0	0
Health Care Financing Admin	5,590	5,590	0	0	0	0	0	0	0
Health Resources & Services Admin	6,090	6,090	0	0	0	0	0	0	0
National Institutes of Health[8]	2,114,356	1,838,010	78,654	32,984	6,343	17,972	30,447	19,452	90,494
Office of the Secretary, total	2,500	0	0	0	0	0	0	2,500	0
Office of the Asst Secretary, Planning & Evaluation	2,500	0	0	0	0	0	0	2,500	0
Other agencies:									
National Aeronautics & Space Admin	81,718	13,721	1,541	27,350	8,231	5,527	21,414	0	3,934
National Science Foundation	132,772	11,112	1,894	16,547	2,889	7,710	78,605	9,679	4,336

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[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1998.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-76. Federal obligations for applied research performed at universities and colleges in psychology and life sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Psychology				Life sciences					
	Total	Biological aspects	Social aspects	Psychological sciences, n.e.c.	Total	Biological	Environmental biology	Agricultural	Medical	Life sciences, n.e.c.
Total, all agencies	77,068	3,438	2,668	70,962	2,006,858	880,164	62,095	74,586	922,986	67,027
Departments:										
Department of Agriculture, total	0	0	0	0	153,191	34,134	40,674	73,793	4,585	5
Agricultural Marketing Service	0	0	0	0	446	0	0	446	0	0
Agricultural Research Service[1]	0	0	0	0	9,857	2,433	350	7,069	0	5
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	136,024	27,067	38,314	66,058	4,585	0
Foreign Agricultural Service[3]	0	0	0	0	220	0	0	220	0	0
Forest Service	0	0	0	0	6,644	4,634	2,010	0	0	0
Department of Defense, total	1,301	397	841	63	42,412	4,915	0	0	33,763	3,734
Department of the Army	626	0	626	0	16,119	307	0	0	15,812	0
Department of the Navy	387	387	0	0	1,174	0	0	0	614	560
Department of the Air Force	288	10	215	63	164	111	0	0	0	53
Defense Agencies, total	0	0	0	0	24,955	4,497	0	0	17,337	3,121
Defense Advanced Research Projects Agency[4]	0	0	0	0	9,609	1,972	0	0	7,637	0
Defense Special Weapons Agency[5]	0	0	0	0	60	60	0	0	0	0
Washington Headquarters Services[6] [7]	0	0	0	0	15,286	2,465	0	0	9,700	3,121
Department of Energy	0	0	0	0	17,589	410	0	0	17,179	0
Dept of Health & Human Svcs, total	72,164	2,705	1,437	68,022	1,768,744	828,835	13,720	0	865,260	60,929
Agcy for Hlth Care Policy & Rsch	278	0	278	0	27,663	0	0	0	26,460	1,203
Centers for Disease Control & Prevention	0	0	0	0	39,045	0	0	0	39,045	0
Food & Drug Administration	0	0	0	0	10,381	10,258	0	0	0	123
Health Care Financing Admin	0	0	0	0	5,881	0	0	0	0	5,881
Health Resources & Services Admin	0	0	0	0	5,913	0	0	0	5,913	0
National Institutes of Health[8]	71,886	2,705	1,159	68,022	1,679,861	818,577	13,720	0	793,842	53,722
Other agencies:										
National Aeronautics & Space Admin	1,541	0	0	1,541	13,721	9,256	40	793	2,199	1,433
National Science Foundation	2,062	336	390	1,336	11,201	2,614	7,661	0	0	926

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[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-77. Federal obligations for applied research performed at universities and colleges in physical and environmental sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Physical sciences					Environmental sciences				
	Total	Astronomy	Chemistry	Physics	Physical sciences, n.e.c.	Total	Atmospheric	Geological	Oceanography	Environmental sciences, n.e.c.
Total, all agencies	129,146	20,165	61,777	36,654	10,550	44,456	6,536	7,759	7,435	22,726
Departments:										
Department of Agriculture, total	13,230	0	13,230	0	0	2,357	2,154	199	0	4
Agricultural Research Service[1]	0	0	0	0	0	4	0	0	0	4
Cooperative State Research, Education, & Extension Service[2]	13,230	0	13,230	0	0	1,688	1,688	0	0	0
Forest Service	0	0	0	0	0	665	466	199	0	0
Department of Defense, total	18,302	0	9,555	4,026	4,721	19,520	888	832	5,549	12,251
Department of the Army	846	0	807	39	0	1,347	0	106	0	1,241
Department of the Navy	93	0	0	93	0	8,253	519	0	5,485	2,249
Department of the Air Force	3,996	0	998	2,994	4	369	369	0	0	0
Defense Agencies, total	13,367	0	7,750	900	4,717	9,551	0	726	64	8,761
Ballistic Missile Defense Organization	200	0	100	0	100	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	900	0	0	900	0	790	0	726	64	0
Defense Special Weapons Agency[4]	2,937	0	0	0	2,937	3,000	0	0	0	3,000
Washington Headquarters Services[5] [6]	9,330	0	7,650	0	1,680	5,761	0	0	0	5,761
Department of Energy	25,443	0	4,435	20,357	651	5,986	0	5,367	0	619
Dept of Health & Human Svcs, total	30,146	0	26,861	3,285	0	5,797	0	0	0	5,797
National Institutes of Health[7]	30,146	0	26,861	3,285	0	5,797	0	0	0	5,797
Other agencies:										
National Aeronautics & Space Admin	27,350	20,148	225	5,104	1,873	8,231	3,472	150	598	4,011
National Science Foundation	14,675	17	7,471	3,882	3,305	2,565	22	1,211	1,288	44

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-78. Federal obligations for applied research performed at universities and colleges in engineering, by selected agency and detailed field of engineering: fiscal year 1996

[Dollars in thousands]

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Agency and subdivision	Total	Aero-nautical	Astro-nautical	Chemical	Civil	Elec-trical	Mechan-ical	Metal-lurgy and materials	Engi-neering, n.e.c.
Total, all agencies	286,801	7,564	1,962	22,601	10,972	21,822	9,346	58,761	153,773
Departments:									
Department of Agriculture, total	12,481	0	0	0	0	0	0	0	12,481
Agricultural Research Service[1]	210	0	0	0	0	0	0	0	210
Cooperative State Research, Education, & Extension Service[2]	12,227	0	0	0	0	0	0	0	12,227
Forest Service	44	0	0	0	0	0	0	0	44
Department of Defense, total	121,933	2,610	799	560	2,597	16,346	6,259	50,679	42,083
Department of the Army	12,929	155	298	254	1,939	1,355	2,575	687	5,666
Department of the Navy	28,938	1,713	0	206	0	8,331	1,264	6,714	10,710
Department of the Air Force	21,389	742	501	0	658	3,378	2,119	13,991	0
Defense Agencies, total	58,677	0	0	100	0	3,282	301	29,287	25,707
Ballistic Missile Defense Organization	3,140	0	0	100	0	640	0	2,400	0
Defense Advanced Research Projects Agency[3]	46,904	0	0	0	0	2,522	0	26,887	17,495
Defense Special Weapons Agency[4]	471	0	0	0	0	120	301	0	50
Washington Headquarters Services[5] [6]	8,162	0	0	0	0	0	0	0	8,162
Department of Energy	28,497	0	0	11,599	3,402	2,169	19	328	10,980
Dept of Health & Human Svcs, total	27,827	0	0	0	0	0	0	0	27,827
National Institutes of Health[7]	27,827	0	0	0	0	0	0	0	27,827
Other agencies:									
National Aeronautics & Space Admin	21,414	4,954	1,163	258	40	2,554	1,905	6,124	4,416
National Science Foundation	74,649	0	0	10,184	4,933	753	1,163	1,630	55,986

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[4] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

NOTES: Only the following six agencies are required to report to this section of the survey: the Departments of Agriculture, Defense, Energy, and Health and Human Services; the National Aeronautics and Space Administration; and the National Science Foundation. The applied research obligations of the six agencies included in this table represent approximately 90 percent of total Federal applied research obligations to universities and colleges in fiscal year 1996.

Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-79. Federal obligations for applied research performed at universities and colleges in mathematics and computer sciences and in social sciences, by selected agency and detailed field of science: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Agency and subdivision	Mathematics and computer sciences				Social sciences					
	Total	Mathematics	Computer sciences	Mathematics and computer sciences, n.e.c.	Total	Anthropology	Economics	Political science	Sociology	Social sciences, n.e.c.
Total, all agencies	218,808	10,879	198,308	9,621	78,827	0	32,441	143	6,680	39,563
Departments:										
Department of Agriculture, total	1,092	228	864	0	35,462	0	30,295	0	5,167	0
Agricultural Research Service[1]	864	0	864	0	0	0	0	0	0	0
Cooperative State Research, Education, & Extension Service[2]	0	0	0	0	31,780	0	26,850	0	4,930	0
Economic Research Service	0	0	0	0	2,718	0	2,718	0	0	0
Forest Service	123	123	0	0	964	0	727	0	237	0
Nat'l Agricultural Statistics Svc	105	105	0	0	0	0	0	0	0	0
Department of Defense, total	187,858	2,322	177,884	7,652	33	0	20	0	13	0
Department of the Army	2,407	78	291	2,038	33	0	20	0	13	0
Department of the Navy	433	0	433	0	0	0	0	0	0	0
Department of the Air Force	738	92	567	79	0	0	0	0	0	0
Defense Agencies, total	184,280	2,152	176,593	5,535	0	0	0	0	0	0
Ballistic Missile Defense Organization	700	200	300	200	0	0	0	0	0	0
Defense Advanced Research Projects Agency[3]	178,299	1,952	176,293	54	0	0	0	0	0	0
Washington Headquarters Services[4] [5]	5,281	0	0	5,281	0	0	0	0	0	0
Dept of Health & Human Svcs, total	17,992	7,930	10,062	0	34,311	0	2,126	143	1,435	30,607
Admin for Children & Families	0	0	0	0	9,337	0	0	0	0	9,337
Agcy for Hlth Care Policy & Rsch	1,566	7	1,559	0	5,480	0	2,126	143	1,435	1,776
National Institutes of Health[6]	16,426	7,923	8,503	0	17,778	0	0	0	0	17,778
Office of the Secretary, total	0	0	0	0	1,716	0	0	0	0	1,716
Office of the Asst Secretary, Planning & Evaluation	0	0	0	0	1,716	0	0	0	0	1,716
Other agencies:										
National Aeronautics & Space Admin	5,527	100	4,480	947	0	0	0	0	0	0
National Science Foundation	6,339	299	5,018	1,022	9,021	0	0	0	65	8,956

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Data for only those agencies that had obligations in the variables represented by this in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-80. Federal obligations for research and development to foreign performers, by region, country, and agency: fiscal year 1996

[Dollars in thousands]

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Region and country	Total	USDA	DoD	DOE	HHS	AID[1]	NASA	NSF	Other[2]
Total	287,360	3,681	103,924	2,154	44,349	34,000	80,235	7,706	11,311
Europe, total	89,234	2,282	39,656	1,816	11,715	0	18,834	6,562	8,369
Austria	2,910	0	10	600	0	0	0	2,300	0
Belgium	301	0	124	0	177	0	0	0	0
Denmark	405	0	0	0	405	0	0	0	0
Finland	1,788	0	0	0	1,788	0	0	0	0
France	6,233	2,258	37	0	312	0	31	1,370	2,225
Germany	7,375	0	4,157	0	0	0	316	700	2,202
Iceland	136	0	136	0	0	0	0	0	0
Ireland	360	0	0	0	324	0	36	0	0
Italy	3,048	0	92	0	2,356	0	0	0	600
Netherlands	1,536	0	76	0	419	0	1,041	0	0
Norway	2,790	0	1,075	0	453	0	42	0	1,220
Poland	24	0	24	0	0	0	0	0	0
Portugal	28	0	28	0	0	0	0	0	0
Spain	11,285	0	55	0	50	0	11,180	0	0
Sweden	7,083	0	2,355	0	3,291	0	1,250	187	0
Switzerland	662	0	20	25	0	0	0	0	617
United Kingdom, total	38,764	0	30,238	1,191	2,140	0	2,810	1,955	430
England	34,115	0	27,464	1,191	2,115	0	2,810	105	430
Scotland	377	0	377	0	0	0	0	0	0
Bermuda	1,988	0	113	0	25	0	0	1,850	0
Other United Kingdom	2,284	0	2,284	0	0	0	0	0	0
Other Europe	4,506	24	1,229	0	0	0	2,128	50	1,075
Asia, total	2,098	11	683	0	1,292	0	0	0	112
Hong Kong	50	0	50	0	0	0	0	0	0
India	56	0	0	0	56	0	0	0	0
Indonesia	3	0	3	0	0	0	0	0	0
Japan	492	0	145	0	347	0	0	0	0
Taiwan	25	0	25	0	0	0	0	0	0
Other Asia	1,472	11	460	0	889	0	0	0	112
Near East, total	56,082	0	49,313	0	2,235	4,500	34	0	0
Egypt	4,100	0	0	0	0	4,100	0	0	0
Israel	51,582	0	49,313	0	2,235	0	34	0	0
Other Near East	400	0	0	0	0	400	0	0	0
Africa, total	1,375	0	699	0	651	0	0	0	25
Kenya	699	0	699	0	0	0	0	0	0
Union of South Africa	128	0	0	0	103	0	0	0	25
Other Africa	548	0	0	0	548	0	0	0	0
Latin America, total	7,863	1,388	188	0	1,853	0	3,569	738	127
Argentina	913	507	0	0	81	0	0	293	32
Brazil	897	19	183	0	521	0	25	149	0
Chile	3,504	0	0	0	0	0	3,355	149	0
Costa Rica	385	0	0	0	385	0	0	0	0
Mexico	216	0	5	0	66	0	0	50	95
Panama	912	862	0	0	0	0	0	50	0
Peru	236	0	0	0	0	0	189	47	0
Other Latin America	800	0	0	0	800	0	0	0	0
Australia	13,974	0	574	80	2,180	0	10,684	0	456
Canada	81,876	0	12,811	258	19,171	0	47,095	346	2,195
New Zealand	1,468	0	0	0	1,389	0	19	60	0
International Organizations	33,390	0	0	0	3,863	29,500	0	0	27

[1] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[2] Includes data for the Departments of Commerce, Interior, and Transportation; the Environmental Protection Agency, and the Nuclear Regulatory Commission.

NOTES: Only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:
USDA = Department of Agriculture
DoD = Department of Defense
DOE = Department of Energy
HHS = Department of Health & Human Services
AID = Agency for International Development
NASA = National Aeronautics & Space Administration
NSF = National Science Foundation

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-81. Federal obligations for basic research to foreign performers, by region, country, and agency: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

Region and country	Total	USDA	DoD	DOE	HHS	EPA	NASA	NSF
Total	49,464	1,970	8,556	1,175	24,326	235	7,366	5,836
Europe, total	16,818	1,219	3,497	937	5,221	132	1,090	4,722
Austria	1,070	0	10	600	0	0	0	460
Belgium	95	0	12	0	83	0	0	0
Denmark	190	0	0	0	190	0	0	0
Finland	959	0	0	0	959	0	0	0
France	2,653	1,219	29	0	0	32	3	1,370
Germany	1,056	0	242	0	0	22	92	700
Iceland	40	0	40	0	0	0	0	0
Ireland	232	0	0	0	220	0	12	0
Italy	641	0	92	0	549	0	0	0
Netherlands	448	0	75	0	184	0	189	0
Norway	450	0	157	0	272	0	21	0
Poland	24	0	24	0	0	0	0	0
Portugal	28	0	28	0	0	0	0	0
Spain	141	0	55	0	50	0	36	0
Sweden	2,004	0	324	0	1,493	0	0	187
Switzerland	114	0	20	25	0	69	0	0
United Kingdom, total	6,075	0	2,327	312	1,221	9	251	1,955
England	3,443	0	1,570	312	1,196	9	251	105
Scotland	377	0	377	0	0	0	0	0
Bermuda	1,875	0	0	0	25	0	0	1,850
Other United Kingdom	380	0	380	0	0	0	0	0
Other Europe	598	0	62	0	0	0	486	50
Asia, total	653	11	150	0	480	12	0	0
India	47	0	0	0	47	0	0	0
Japan	287	0	124	0	163	0	0	0
Taiwan	25	0	25	0	0	0	0	0
Other Asia	294	11	1	0	270	12	0	0
Near East, total	3,040	0	1,512	0	1,516	0	12	0
Israel	3,040	0	1,512	0	1,516	0	12	0
Africa, total	147	0	0	0	147	0	0	0
Union of South Africa	48	0	0	0	48	0	0	0
Other Africa	99	0	0	0	99	0	0	0
Latin America, total	2,328	740	5	0	777	11	57	738
Argentina	645	274	0	0	78	0	0	293
Brazil	252	0	0	0	94	0	9	149
Chile	178	0	0	0	0	0	29	149
Costa Rica	181	0	0	0	181	0	0	0
Mexico	114	0	5	0	48	11	0	50
Panama	516	466	0	0	0	0	0	50
Peru	66	0	0	0	0	0	19	47
Other Latin America	376	0	0	0	376	0	0	0
Australia	2,121	0	494	80	1,237	9	301	0
Canada	21,366	0	2,898	158	11,994	71	5,899	346
New Zealand	819	0	0	0	782	0	7	30
International Organizations	2,172	0	0	0	2,172	0	0	0

NOTES: Only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:

USDA = Department of Agriculture
DoD = Department of Defense
DOE = Department of Energy
HHS = Department of Health & Human Services
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration
NSF = National Science Foundation

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-82. Federal obligations for research and development and for R&D plant for selected agencies, by State: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

State	Research, development, and R&D plant	Research and development	R&D plant
Total	67,993,135	66,256,528	1,736,607
Alabama	2,228,392	2,179,525	48,867
Alaska	93,494	93,334	160
Arizona	711,733	708,774	2,959
Arkansas	159,232	146,727	12,505
California	12,958,839	12,617,601	341,238
Colorado	1,309,488	1,281,066	28,422
Connecticut	802,971	799,412	3,559
Delaware	65,217	63,186	2,031
District of Columbia	2,580,314	2,575,680	4,634
Florida	3,025,438	2,960,160	65,278
Georgia	4,141,087	4,136,517	4,570
Hawaii	149,027	147,370	1,657
Idaho	263,629	244,469	19,160
Illinois	1,240,629	1,093,305	147,324
Indiana	450,688	435,492	15,196
Iowa	224,188	214,114	10,074
Kansas	212,681	211,213	1,468
Kentucky	81,463	79,037	2,426
Louisiana	261,663	235,137	26,526
Maine	57,791	57,631	160
Maryland	6,972,746	6,732,522	240,224
Massachusetts	3,194,084	3,179,959	14,125
Michigan	712,192	705,915	6,277
Minnesota	684,755	678,477	6,278
Mississippi	284,011	251,234	32,777
Missouri	1,274,477	1,270,049	4,428
Montana	68,267	62,500	5,767
Nebraska	89,793	88,762	1,031
Nevada	268,889	252,789	16,100
New Hampshire	268,807	268,186	621
New Jersey	1,302,203	1,275,500	26,703
New Mexico	2,031,470	1,953,922	77,548
New York	2,656,600	2,491,995	164,605
North Carolina	836,582	816,111	20,471
North Dakota	46,505	45,055	1,450
Ohio	1,751,205	1,683,664	67,541
Oklahoma	140,719	137,548	3,171
Oregon	314,929	306,830	8,099
Pennsylvania	1,977,622	1,926,363	51,259
Rhode Island	587,464	583,521	3,943
South Carolina	189,294	187,060	2,234
South Dakota	37,569	34,617	2,952
Tennessee	581,432	558,483	22,949
Texas	3,550,042	3,493,544	56,498
Utah	354,478	351,836	2,642
Vermont	48,829	46,624	2,205
Virginia	4,671,221	4,601,548	69,673
Washington	1,221,873	1,150,045	71,828
West Virginia	256,480	253,880	2,600
Wisconsin	334,594	331,547	3,047
Wyoming	38,242	37,777	465
Outlying areas	178,764	170,430	8,334
Puerto Rico	49,730	49,450	280
Other areas	129,034	120,980	8,054
Offices abroad	49,033	48,485	548

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1996.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-83. Federal obligations for research and development for selected agencies, by State and performer: fiscal year 1996

[Dollars in thousands]

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State (in order of total Federal research & development obligations)	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	66,256,528	15,976,792	30,297,973	1,109,742	11,790,981	3,434,492	2,695,105	737,386	214,057
California	12,617,601	1,281,696	7,136,776	0	1,707,278	1,882,668	415,258	179,859	14,066
Maryland	6,732,522	4,341,889	1,403,237	141,390	684,871	0	151,926	5,911	3,298
Virginia	4,601,548	1,580,204	2,536,729	0	209,552	58,890	35,275	178,366	2,532
Georgia	4,136,517	246,737	3,659,788	0	218,994	0	7,772	0	3,226
Texas	3,493,544	537,802	2,161,664	0	644,151	0	144,245	831	4,851
Massachusetts	3,179,959	300,198	1,210,405	0	760,972	145,399	613,508	144,204	5,273
Florida	2,960,160	620,939	2,050,876	0	267,213	0	17,317	0	3,815
District of Columbia	2,575,680	1,847,005	399,855	0	143,358	0	182,772	0	2,690
New York	2,491,995	134,267	883,225	0	994,383	204,934	194,625	0	80,561
Alabama	2,179,525	738,254	1,226,300	0	192,367	0	21,557	0	1,047
New Mexico	1,953,922	438,313	252,688	641,984	94,348	508,995	15,665	0	1,929
Pennsylvania	1,926,363	153,983	862,988	0	734,089	8,626	164,416	0	2,261
Ohio	1,683,664	587,005	701,481	0	317,554	0	74,981	0	2,643
Colorado	1,281,066	178,799	642,652	0	226,849	72,701	50,845	104,851	4,369
New Jersey	1,275,500	453,564	553,275	0	190,696	59,366	10,717	4,867	3,015
Missouri	1,270,049	50,779	943,688	0	253,414	0	19,581	0	2,587
Washington	1,150,045	198,909	394,330	0	326,868	0	106,351	118,497	5,090
Illinois	1,093,305	80,585	122,340	0	449,973	390,487	47,502	0	2,418
North Carolina	816,111	199,319	116,319	0	452,735	0	44,049	0	3,689
Connecticut	799,412	26,572	514,502	0	242,412	0	10,486	0	5,440
Arizona	708,774	149,950	370,065	0	148,229	31,072	7,446	0	2,012
Michigan	705,915	96,297	159,054	0	404,199	0	43,081	0	3,284
Minnesota	678,477	31,742	345,050	0	187,673	0	110,073	0	3,939
Rhode Island	583,521	338,150	169,559	0	54,918	0	19,542	0	1,352
Tennessee	558,483	72,615	49,693	239,059	162,343	9,860	23,707	0	1,206
Indiana	435,492	75,603	156,277	0	194,515	0	6,996	0	2,101
Utah	351,836	133,612	96,659	0	119,623	0	1,236	0	706
Wisconsin	331,547	37,827	36,170	0	246,991	0	8,103	0	2,456
Oregon	306,830	82,344	50,958	0	130,889	0	35,552	0	7,087
New Hampshire	268,186	28,523	171,908	0	65,781	0	1,642	0	332
West Virginia	253,880	101,957	98,016	0	17,553	29,776	5,251	0	1,327
Nevada	252,789	40,271	191,470	0	18,630	0	1,987	0	431
Mississippi	251,234	129,154	73,189	0	43,447	0	3,479	0	1,965
Idaho	244,469	25,472	108,708	53,020	56,182	0	637	0	450
Louisiana	235,137	46,075	77,573	0	100,247	0	8,733	0	2,509
Iowa	214,114	28,948	21,020	0	136,945	23,447	2,375	0	1,379
Kansas	211,213	13,763	133,691	0	61,732	0	876	0	1,151
South Carolina	187,060	36,687	45,624	34,289	63,763	0	3,697	0	3,000
Hawaii	147,370	57,093	25,124	0	52,298	0	12,042	0	813
Arkansas	146,727	104,426	4,116	0	35,597	0	1,971	0	617
Oklahoma	137,548	45,622	35,668	0	45,749	0	9,320	0	1,189
Alaska	93,334	57,988	8,813	0	23,392	0	800	0	2,341
Nebraska	88,762	21,114	12,601	0	48,525	0	5,595	0	927
Kentucky	79,037	6,022	3,338	0	66,893	0	1,886	0	898
Delaware	63,186	6,948	23,233	0	26,245	0	6,461	0	299
Montana	62,500	29,780	5,199	0	20,861	0	5,906	0	754
Maine	57,631	4,296	11,535	0	15,316	0	22,379	0	4,105
Vermont	46,624	6,564	5,513	0	33,406	0	840	0	301
North Dakota	45,055	26,120	692	0	16,605	0	1,002	0	636
Wyoming	37,777	9,806	278	0	14,555	0	12,474	0	664
South Dakota	34,617	18,244	6,412	0	8,465	0	917	0	579
Outlying areas	170,430	96,116	340	0	57,005	8,271	251	0	8,447
Puerto Rico	49,450	8,076	45	0	32,347	8,271	251	0	460
Other areas	120,980	88,040	295	0	24,658	0	0	0	7,987
Offices abroad	48,485	20,844	27,309	0	332	0	0	0	0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1996.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-83a. Percentage distribution of Federal obligations for research and development to each performer for selected agencies, by State: fiscal year 1996

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State (in order of total Federal research & development obligations)	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	19.0	8.0	23.6	.0	14.5	54.8	15.4	24.4	6.6
Maryland	10.2	27.2	4.6	12.7	5.8	.0	5.6	.8	1.5
Virginia	6.9	9.9	8.4	.0	1.8	1.7	1.3	24.2	1.2
Georgia	6.2	1.5	12.1	.0	1.9	.0	.3	.0	1.5
Texas	5.3	3.4	7.1	.0	5.5	.0	5.4	.1	2.3
Massachusetts	4.8	1.9	4.0	.0	6.5	4.2	22.8	19.6	2.5
Florida	4.5	3.9	6.8	.0	2.3	.0	.6	.0	1.8
District of Columbia	3.9	11.6	1.3	.0	1.2	.0	6.8	.0	1.3
New York	3.8	.8	2.9	.0	8.4	6.0	7.2	.0	37.6
Alabama	3.3	4.6	4.0	.0	1.6	.0	.8	.0	.5
New Mexico	2.9	2.7	.8	57.8	.8	14.8	.6	.0	.9
Pennsylvania	2.9	1.0	2.8	.0	6.2	.3	6.1	.0	1.1
Ohio	2.5	3.7	2.3	.0	2.7	.0	2.8	.0	1.2
Colorado	1.9	1.1	2.1	.0	1.9	2.1	1.9	14.2	2.0
New Jersey	1.9	2.8	1.8	.0	1.6	1.7	.4	.7	1.4
Missouri	1.9	.3	3.1	.0	2.1	.0	.7	.0	1.2
Washington	1.7	1.2	1.3	.0	2.8	.0	3.9	16.1	2.4
Illinois	1.7	.5	.4	.0	3.8	11.4	1.8	.0	1.1
North Carolina	1.2	1.2	.4	.0	3.8	.0	1.6	.0	1.7
Connecticut	1.2	.2	1.7	.0	2.1	.0	.4	.0	2.5
Arizona	1.1	.9	1.2	.0	1.3	.9	.3	.0	.9
Michigan	1.1	.6	.5	.0	3.4	.0	1.6	.0	1.5
Minnesota	1.0	.2	1.1	.0	1.6	.0	4.1	.0	1.8
Rhode Island	.9	2.1	.6	.0	.5	.0	.7	.0	.8
Tennessee	.8	.5	.2	21.5	1.4	.3	.9	.0	.6
Indiana	.7	.5	.5	.0	1.6	.0	.3	.0	1.0
Utah	.5	.8	.3	.0	1.0	.0	*	.0	.3
Wisconsin	.5	.2	.1	.0	2.1	.0	.3	.0	1.1
Oregon	.5	.5	.2	.0	1.1	.0	1.3	.0	3.3
New Hampshire	.4	.2	.6	.0	.6	.0	.1	.0	.2
West Virginia	.4	.6	.3	.0	.1	.9	.2	.0	.6
Nevada	.4	.3	.6	.0	.2	.0	.1	.0	.2
Mississippi	.4	.8	.2	.0	.4	.0	.1	.0	.9
Idaho	.4	.2	.4	4.8	.5	.0	*	.0	.2
Louisiana	.4	.3	.3	.0	.9	.0	.3	.0	1.2
Iowa	.3	.2	.1	.0	1.2	.7	.1	.0	.6
Kansas	.3	.1	.4	.0	.5	.0	*	.0	.5
South Carolina	.3	.2	.2	3.1	.5	.0	.1	.0	1.4
Hawaii	.2	.4	.1	.0	.4	.0	.4	.0	.4
Arkansas	.2	.7	*	.0	.3	.0	.1	.0	.3
Oklahoma	.2	.3	.1	.0	.4	.0	.3	.0	.6
Alaska	.1	.4	*	.0	.2	.0	*	.0	1.1
Nebraska	.1	.1	*	.0	.4	.0	.2	.0	.4
Kentucky	.1	*	*	.0	.6	.0	.1	.0	.4
Delaware	.1	*	.1	.0	.2	.0	.2	.0	.1
Montana	.1	.2	*	.0	.2	.0	.2	.0	.4
Maine	.1	*	*	.0	.1	.0	.8	.0	1.9
Vermont	.1	*	*	.0	.3	.0	*	.0	.1
North Dakota	.1	.2	*	.0	.1	.0	*	.0	.3
Wyoming	.1	.1	*	.0	.1	.0	.5	.0	.3
South Dakota	.1	.1	*	.0	.1	.0	*	.0	.3
Outlying areas	.3	.6	*	.0	.5	.2	*	.0	3.9
Puerto Rico	.1	.1	*	.0	.3	.2	*	.0	.2
Other areas	.2	.6	*	.0	.2	.0	.0	.0	3.7
Offices abroad	.1	.1	.1	.0	*	.0	.0	.0	.0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1996.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: * = Percentage less than .05%
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-83b. Percentage distribution of Federal obligations for research and development to each State for selected agencies, by performer: fiscal year 1996

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State (in order of total Federal research & development obligations)	Total	Intra-mural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Univer-sities and colleges	FFRDCs admin by univs and colleges	Other non-profit institu-tions	FFRDCs admin by nonprofit institu-tions	State and local govts
Total	100.0	24.1	45.7	1.7	17.8	5.2	4.1	1.1	0.3
California	100.0	10.2	56.6	.0	13.5	14.9	3.3	1.4	.1
Maryland	100.0	64.5	20.8	2.1	10.2	.0	2.3	.1	*
Virginia	100.0	34.3	55.1	.0	4.6	1.3	.8	3.9	.1
Georgia	100.0	6.0	88.5	.0	5.3	.0	.2	.0	.1
Texas	100.0	15.4	61.9	.0	18.4	.0	4.1	*	.1
Massachusetts	100.0	9.4	38.1	.0	23.9	4.6	19.3	4.5	.2
Florida	100.0	21.0	69.3	.0	9.0	.0	.6	.0	.1
District of Columbia	100.0	71.7	15.5	.0	5.6	.0	7.1	.0	.1
New York	100.0	5.4	35.4	.0	39.9	8.2	7.8	.0	3.2
Alabama	100.0	33.9	56.3	.0	8.8	.0	1.0	.0	*
New Mexico	100.0	22.4	12.9	32.9	4.8	26.0	.8	.0	.1
Pennsylvania	100.0	8.0	44.8	.0	38.1	.4	8.5	.0	.1
Ohio	100.0	34.9	41.7	.0	18.9	.0	4.5	.0	.2
Colorado	100.0	14.0	50.2	.0	17.7	5.7	4.0	8.2	.3
New Jersey	100.0	35.6	43.4	.0	15.0	4.7	.8	.4	.2
Missouri	100.0	4.0	74.3	.0	20.0	.0	1.5	.0	.2
Washington	100.0	17.3	34.3	.0	28.4	.0	9.2	10.3	.4
Illinois	100.0	7.4	11.2	.0	41.2	35.7	4.3	.0	.2
North Carolina	100.0	24.4	14.3	.0	55.5	.0	5.4	.0	.5
Connecticut	100.0	3.3	64.4	.0	30.3	.0	1.3	.0	.7
Arizona	100.0	21.2	52.2	.0	20.9	4.4	1.1	.0	.3
Michigan	100.0	13.6	22.5	.0	57.3	.0	6.1	.0	.5
Minnesota	100.0	4.7	50.9	.0	27.7	.0	16.2	.0	.6
Rhode Island	100.0	57.9	29.1	.0	9.4	.0	3.3	.0	.2
Tennessee	100.0	13.0	8.9	42.8	29.1	1.8	4.2	.0	.2
Indiana	100.0	17.4	35.9	.0	44.7	.0	1.6	.0	.5
Utah	100.0	38.0	27.5	.0	34.0	.0	.4	.0	.2
Wisconsin	100.0	11.4	10.9	.0	74.5	.0	2.4	.0	.7
Oregon	100.0	26.8	16.6	.0	42.7	.0	11.6	.0	2.3
New Hampshire	100.0	10.6	64.1	.0	24.5	.0	.6	.0	.1
West Virginia	100.0	40.2	38.6	.0	6.9	11.7	2.1	.0	.5
Nevada	100.0	15.9	75.7	.0	7.4	.0	.8	.0	.2
Mississippi	100.0	51.4	29.1	.0	17.3	.0	1.4	.0	.8
Idaho	100.0	10.4	44.5	21.7	23.0	.0	.3	.0	.2
Louisiana	100.0	19.6	33.0	.0	42.6	.0	3.7	.0	1.1
Iowa	100.0	13.5	9.8	.0	64.0	11.0	1.1	.0	.6
Kansas	100.0	6.5	63.3	.0	29.2	.0	.4	.0	.5
South Carolina	100.0	19.6	24.4	18.3	34.1	.0	2.0	.0	1.6
Hawaii	100.0	38.7	17.0	.0	35.5	.0	8.2	.0	.6
Arkansas	100.0	71.2	2.8	.0	24.3	.0	1.3	.0	.4
Oklahoma	100.0	33.2	25.9	.0	33.3	.0	6.8	.0	.9
Alaska	100.0	62.1	9.4	.0	25.1	.0	.9	.0	2.5
Nebraska	100.0	23.8	14.2	.0	54.7	.0	6.3	.0	1.0
Kentucky	100.0	7.6	4.2	.0	84.6	.0	2.4	.0	1.1
Delaware	100.0	11.0	36.8	.0	41.5	.0	10.2	.0	.5
Montana	100.0	47.6	8.3	.0	33.4	.0	9.4	.0	1.2
Maine	100.0	7.5	20.0	.0	26.6	.0	38.8	.0	7.1
Vermont	100.0	14.1	11.8	.0	71.6	.0	1.8	.0	.6
North Dakota	100.0	58.0	1.5	.0	36.9	.0	2.2	.0	1.4
Wyoming	100.0	26.0	.7	.0	38.5	.0	33.0	.0	1.8
South Dakota	100.0	52.7	18.5	.0	24.5	.0	2.6	.0	1.7
Outlying areas	100.0	56.4	.2	.0	33.4	4.9	.1	.0	5.0
Puerto Rico	100.0	16.3	.1	.0	65.4	16.7	.5	.0	.9
Other areas	100.0	72.8	.2	.0	20.4	.0	.0	.0	6.6
Offices abroad	100.0	43.0	56.3	.0	.7	.0	.0	.0	.0

[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1996.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:
* = Percentage less than .05%
FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-84. Federal obligations for research and development, by State and selected agency: fiscal year 1996

[Dollars in thousands]

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State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	66,256,528	1,298,275	1,065,395	34,390,985	5,342,783	11,908,758	566,285	551,386	462,189	8,489,865	2,180,607
California	12,617,601	71,854	96,918	7,370,786	901,842	1,351,322	46,415	24,387	13,947	2,447,940	292,190
Maryland	6,732,522	133,286	346,065	2,334,881	50,829	2,802,771	15,828	24,855	14,468	941,508	68,031
Virginia	4,601,548	9,637	18,738	3,667,942	87,582	148,011	41,056	35,983	23,729	508,704	59,166
Georgia	4,136,517	45,544	1,289	3,704,745	9,276	291,688	6,194	4,381	13,829	26,090	33,481
Texas	3,493,544	57,538	20,071	1,434,319	33,494	469,664	10,486	16,266	8,320	1,365,003	78,383
Massachusetts	3,179,959	21,363	52,014	1,684,556	90,837	975,416	5,353	44,087	13,467	143,848	149,018
Florida	2,960,160	31,173	35,005	1,753,868	17,250	129,073	12,831	7,719	15,225	897,312	60,704
District of Columbia	2,575,680	141,823	10,505	1,371,928	312,708	178,370	13,135	132,231	62,782	251,100	101,098
New York	2,491,995	29,812	18,563	735,475	511,602	946,675	5,441	11,637	3,373	37,978	191,439
Alabama	2,179,525	14,488	2,005	1,329,002	22,487	146,712	4,167	2,170	2,388	647,066	9,040
New Mexico	1,953,922	6,560	275	757,927	1,056,852	35,148	5,086	8,403	905	58,956	13,810
Pennsylvania	1,926,363	37,344	15,904	755,920	334,026	601,809	5,264	11,834	3,484	50,576	110,202
Ohio	1,683,664	15,204	19,243	829,974	20,248	303,414	3,622	12,458	56,170	386,772	36,559
Colorado	1,281,066	27,787	78,277	601,477	137,837	158,751	45,834	12,107	5,592	108,776	104,628
New Jersey	1,275,500	4,899	44,085	831,739	81,907	101,424	3,744	62,734	3,564	89,452	51,952
Missouri	1,270,049	19,916	118	977,621	5,372	221,131	10,386	2,106	159	11,547	21,693
Washington	1,150,045	32,106	72,277	428,683	138,427	329,041	14,117	6,431	2,737	72,958	53,268
Illinois	1,093,305	39,530	12,764	134,324	460,828	289,250	2,442	16,958	1,020	15,597	120,592
North Carolina	816,111	28,127	12,123	134,930	12,053	451,779	4,131	6,519	109,028	10,408	47,013
Connecticut	799,412	5,721	20,459	408,647	58,377	214,966	1,351	13,570	619	55,231	20,471
Arizona	708,774	18,350	1,064	478,451	5,825	67,779	8,612	2,779	5,058	58,558	62,298
Michigan	705,915	17,534	25,100	250,190	12,655	273,659	6,306	6,676	17,002	21,116	75,677
Minnesota	678,477	22,111	18,358	366,991	6,079	200,207	4,312	3,722	15,098	7,559	34,040
Rhode Island	583,521	1,629	3,493	501,158	2,961	42,248	1,806	819	10,231	2,950	16,226
Tennessee	558,483	8,478	1,025	94,190	263,406	149,196	3,509	4,305	1,599	20,213	12,562
Indiana	435,492	15,757	784	250,648	19,080	93,707	2,953	1,027	1,376	7,511	42,649
Utah	351,836	12,038	1,973	230,769	5,553	67,690	6,126	559	127	6,892	20,109
Wisconsin	331,547	32,770	4,795	25,937	15,680	162,331	11,880	3,443	869	27,042	46,800
Oregon	306,830	33,690	23,028	39,487	33,304	99,857	13,619	6,323	23,330	6,606	27,586
New Hampshire	268,186	4,542	1,563	192,154	1,150	38,444	1,217	1,258	100	15,581	12,177
West Virginia	253,880	19,110	840	16,139	127,777	41,191	5,865	1,454	0	8,722	32,782
Nevada	252,789	1,819	6	25,143	171,461	6,973	12,173	13,337	12,660	1,763	7,454
Mississippi	251,234	48,806	8,246	95,054	1,972	12,555	2,538	1,412	1,077	74,189	5,385
Idaho	244,469	17,164	1,291	13,902	194,037	1,787	9,783	974	265	2,153	3,113
Louisiana	235,137	31,768	3,693	57,263	10,269	59,706	17,620	1,105	1,219	40,568	11,926
Iowa	214,114	37,874	1,371	22,135	27,125	86,509	2,648	10,184	3,564	8,018	14,686
Kansas	211,213	12,319	78	137,088	4,812	36,068	3,545	1,433	1,410	3,094	11,366
South Carolina	187,060	14,083	18,280	63,186	41,094	36,346	3,112	686	365	2,219	7,689
Hawaii	147,370	20,372	11,006	54,896	3,114	20,839	12,205	656	140	5,670	18,472
Arkansas	146,727	15,565	131	68,113	200	55,589	3,887	767	145	479	1,851
Oklahoma	137,548	16,605	6,503	26,485	24,197	30,359	2,885	11,237	7,689	1,140	10,448
Alaska	93,334	6,708	34,135	10,150	98	2,185	24,786	697	15	7,037	7,523
Nebraska	88,762	24,533	241	17,561	897	28,385	3,250	559	0	1,112	12,224
Kentucky	79,037	8,290	984	8,178	5,799	43,950	1,976	829	199	935	7,897
Delaware	63,186	3,911	15,344	12,800	5,509	6,773	889	4,057	1,828	2,012	10,068
Montana	62,500	15,963	397	6,594	2,136	18,007	5,449	542	0	6,130	7,282
Maine	57,631	4,124	2,079	12,486	3,455	22,134	1,842	316	918	1,252	9,025
Vermont	46,624	5,451	148	7,352	500	26,588	1,874	247	54	996	3,414
North Dakota	45,055	24,627	0	2,160	4,393	3,947	5,464	354	492	387	3,231
Wyoming	37,777	6,576	583	3,405	3,412	1,136	4,458	11,031	129	549	6,498
South Dakota	34,617	5,269	676	1,213	0	2,974	12,917	444	0	7,902	3,222
Outlying areas	170,430	13,244	1,383	6,085	999	23,224	109,896	293	424	2,688	12,194
Puerto Rico	49,450	9,251	379	1,621	999	22,671	2,099	293	70	0	12,067
Other areas	120,980	3,993	1,004	4,464	0	553	107,797	0	354	2,688	127
Offices abroad	48,485	3,483	99	44,878	0	0	0	25	0	0	0

[1] Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1996.

KEY:
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-84a. Percentage distribution of Federal obligations for research and development of each selected agency, by State: fiscal year 1996

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State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
California	19.0	5.5	9.1	21.4	16.9	11.3	8.2	4.4	3.0	28.8	13.4
Maryland	10.2	10.3	32.5	6.8	1.0	23.5	2.8	4.5	3.1	11.1	3.1
Virginia	6.9	.7	1.8	10.7	1.6	1.2	7.3	6.7	5.1	6.0	2.7
Georgia	6.2	3.5	.1	10.8	.2	2.4	1.1	.8	3.0	.3	1.5
Texas	5.3	4.4	1.9	4.2	.6	3.9	1.9	3.0	1.8	16.1	3.6
Massachusetts	4.8	1.6	4.9	4.9	1.7	8.2	.9	8.0	2.9	1.7	6.8
Florida	4.5	2.4	3.3	5.1	.3	1.1	2.3	1.4	3.3	10.6	2.8
District of Columbia	3.9	10.9	1.0	4.0	5.9	1.5	2.3	24.0	13.6	3.0	4.6
New York	3.8	2.3	1.7	2.1	9.6	7.9	1.0	2.1	.7	.4	8.8
Alabama	3.3	1.1	.2	3.9	.4	1.2	.7	.4	.5	7.6	.4
New Mexico	2.9	.5	*	2.2	19.8	.3	.9	1.5	.2	.8	.6
Pennsylvania	2.9	2.9	1.5	2.2	6.3	5.1	.9	2.1	.8	.6	5.1
Ohio	2.5	1.2	1.8	2.4	.4	2.5	.6	2.3	12.2	4.6	1.7
Colorado	1.9	2.1	7.3	1.7	2.6	1.3	8.1	2.2	1.2	1.3	4.8
New Jersey	1.9	.4	4.1	2.4	1.5	.9	.7	11.4	.8	1.1	2.4
Missouri	1.9	1.5	*	2.8	.1	1.9	1.8	.4	*	.1	1.0
Washington	1.7	2.5	6.8	1.2	2.6	2.8	2.5	1.2	.6	.9	2.4
Illinois	1.7	3.0	1.2	.4	8.6	2.4	.4	3.1	.2	.2	5.5
North Carolina	1.2	2.2	1.1	.4	.2	3.8	.7	1.2	23.6	.1	2.2
Connecticut	1.2	.4	1.9	1.2	1.1	1.8	.2	2.5	.1	.7	.9
Arizona	1.1	1.4	.1	1.4	.1	.6	1.5	.5	1.1	.7	2.9
Michigan	1.1	1.4	2.4	.7	.2	2.3	1.1	1.2	3.7	.2	3.5
Minnesota	1.0	1.7	1.7	1.1	.1	1.7	.8	.7	3.3	.1	1.6
Rhode Island	.9	.1	.3	1.5	.1	.4	.3	.1	2.2	*	.7
Tennessee	.8	.7	.1	.3	4.9	1.3	.6	.8	.3	.2	.6
Indiana	.7	1.2	.1	.7	.4	.8	.5	.2	.3	.1	2.0
Utah	.5	.9	.2	.7	.1	.6	1.1	.1	*	.1	.9
Wisconsin	.5	2.5	.5	.1	.3	1.4	2.1	.6	.2	.3	2.1
Oregon	.5	2.6	2.2	.1	.6	.8	2.4	1.1	5.0	.1	1.3
New Hampshire	.4	.3	.1	.6	*	.3	.2	.2	*	.2	.6
West Virginia	.4	1.5	.1	*	2.4	.3	1.0	.3	.0	.1	1.5
Nevada	.4	.1	*	.1	3.2	.1	2.1	2.4	2.7	*	.3
Mississippi	.4	3.8	.8	.3	*	.1	.4	.3	.2	.9	.2
Idaho	.4	1.3	.1	*	3.6	*	1.7	.2	.1	*	.1
Louisiana	.4	2.4	.3	.2	.2	.5	3.1	.2	.3	.5	.5
Iowa	.3	2.9	.1	.1	.5	.7	.5	1.8	.8	.1	.7
Kansas	.3	.9	*	.4	.1	.3	.6	.3	.3	*	.5
South Carolina	.3	1.1	1.7	.2	.8	.3	.5	.1	.1	*	.4
Hawaii	.2	1.6	1.0	.2	.1	.2	2.2	.1	*	.1	.8
Arkansas	.2	1.2	*	.2	*	.5	.7	.1	*	*	.1
Oklahoma	.2	1.3	.6	.1	.5	.3	.5	2.0	1.7	*	.5
Alaska	.1	.5	3.2	*	*	*	4.4	.1	*	.1	.3
Nebraska	.1	1.9	*	.1	*	.2	.6	.1	.0	*	.6
Kentucky	.1	.6	.1	*	.1	.4	.3	.2	*	*	.4
Delaware	.1	.3	1.4	*	.1	.1	.2	.7	.4	*	.5
Montana	.1	1.2	*	*	*	.2	1.0	.1	.0	.1	.3
Maine	.1	.3	.2	*	.1	.2	.3	.1	.2	*	.4
Vermont	.1	.4	*	*	*	.2	.3	*	*	*	.2
North Dakota	.1	1.9	.0	*	.1	*	1.0	.1	.1	*	.1
Wyoming	.1	.5	.1	*	.1	*	.8	2.0	*	*	.3
South Dakota	.1	.4	.1	*	.0	*	2.3	.1	.0	.1	.1
Outlying areas	.3	1.0	.1	*	*	.2	19.4	.1	.1	*	.6
Puerto Rico	.1	.7	*	*	*	.2	.4	.1	*	.0	.6
Other areas	.2	.3	.1	*	.0	*	19.0	.0	.1	*	*
Offices abroad	.1	.3	*	.1	.0	.0	.0	*	.0	.0	.0

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[1] Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D obligations in fiscal year 1996.

KEY:

* = Percentage less than .05%
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-84b. Percentage distribution of Federal obligations for research and development of each State, by selected agency: fiscal year 1996

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State (in order of total Federal research & development obligations)	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense[1]	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	100.0	2.0	1.6	51.9	8.1	18.0	0.9	0.8	0.7	12.8	3.3
California	100.0	.6	.8	58.4	7.1	10.7	.4	.2	.1	19.4	2.3
Maryland	100.0	2.0	5.1	34.7	.8	41.6	.2	.4	.2	14.0	1.0
Virginia	100.0	.2	.4	79.7	1.9	3.2	.9	.8	.5	11.1	1.3
Georgia	100.0	1.1	*	89.6	.2	7.1	.1	.1	.3	.6	.8
Texas	100.0	1.6	.6	41.1	1.0	13.4	.3	.5	.2	39.1	2.2
Massachusetts	100.0	.7	1.6	53.0	2.9	30.7	.2	1.4	.4	4.5	4.7
Florida	100.0	1.1	1.2	59.2	.6	4.4	.4	.3	.5	30.3	2.1
District of Columbia	100.0	5.5	.4	53.3	12.1	6.9	.5	5.1	2.4	9.7	3.9
New York	100.0	1.2	.7	29.5	20.5	38.0	.2	.5	.1	1.5	7.7
Alabama	100.0	.7	.1	61.0	1.0	6.7	.2	.1	.1	29.7	.4
New Mexico	100.0	.3	*	38.8	54.1	1.8	.3	.4	*	3.5	.7
Pennsylvania	100.0	1.9	.8	39.2	17.3	31.2	.3	.6	.2	2.6	5.7
Ohio	100.0	.9	1.1	49.3	1.2	18.0	.2	.7	3.3	23.0	2.2
Colorado	100.0	2.2	6.1	47.0	10.8	12.4	3.6	.9	.4	8.5	8.2
New Jersey	100.0	.4	3.5	65.2	6.4	8.0	.3	4.9	.3	7.0	4.1
Missouri	100.0	1.6	*	77.0	.4	17.4	.8	.2	*	.9	1.7
Washington	100.0	2.8	6.3	37.3	12.0	28.6	1.2	.6	.2	6.3	4.6
Illinois	100.0	3.6	1.2	12.3	42.1	26.5	.2	1.6	.1	1.4	11.0
North Carolina	100.0	3.4	1.5	16.5	1.5	55.4	.5	.8	13.4	1.3	5.8
Connecticut	100.0	.7	2.6	51.1	7.3	26.9	.2	1.7	.1	6.9	2.6
Arizona	100.0	2.6	.2	67.5	.8	9.6	1.2	.4	.7	8.3	8.8
Michigan	100.0	2.5	3.6	35.4	1.8	38.8	.9	.9	2.4	3.0	10.7
Minnesota	100.0	3.3	2.7	54.1	.9	29.5	.6	.5	2.2	1.1	5.0
Rhode Island	100.0	.3	.6	85.9	.5	7.2	.3	.1	1.8	.5	2.8
Tennessee	100.0	1.5	.2	16.9	47.2	26.7	.6	.8	.3	3.6	2.2
Indiana	100.0	3.6	.2	57.6	4.4	21.5	.7	.2	.3	1.7	9.8
Utah	100.0	3.4	.6	65.6	1.6	19.2	1.7	.2	*	2.0	5.7
Wisconsin	100.0	9.9	1.4	7.8	4.7	49.0	3.6	1.0	.3	8.2	14.1
Oregon	100.0	11.0	7.5	12.9	10.9	32.5	4.4	2.1	7.6	2.2	9.0
New Hampshire	100.0	1.7	.6	71.6	.4	14.3	.5	.5	*	5.8	4.5
West Virginia	100.0	7.5	.3	6.4	50.3	16.2	2.3	.6	.0	3.4	12.9
Nevada	100.0	.7	*	9.9	67.8	2.8	4.8	5.3	5.0	.7	2.9
Mississippi	100.0	19.4	3.3	37.8	.8	5.0	1.0	.6	.4	29.5	2.1
Idaho	100.0	7.0	.5	5.7	79.4	.7	4.0	.4	.1	.9	1.3
Louisiana	100.0	13.5	1.6	24.4	4.4	25.4	7.5	.5	.5	17.3	5.1
Iowa	100.0	17.7	.6	10.3	12.7	40.4	1.2	4.8	1.7	3.7	6.9
Kansas	100.0	5.8	*	64.9	2.3	17.1	1.7	.7	.7	1.5	5.4
South Carolina	100.0	7.5	9.8	33.8	22.0	19.4	1.7	.4	.2	1.2	4.1
Hawaii	100.0	13.8	7.5	37.3	2.1	14.1	8.3	.4	.1	3.8	12.5
Arkansas	100.0	10.6	.1	46.4	.1	37.9	2.6	.5	.1	.3	1.3
Oklahoma	100.0	12.1	4.7	19.3	17.6	22.1	2.1	8.2	5.6	.8	7.6
Alaska	100.0	7.2	36.6	10.9	.1	2.3	26.6	.7	*	7.5	8.1
Nebraska	100.0	27.6	.3	19.8	1.0	32.0	3.7	.6	.0	1.3	13.8
Kentucky	100.0	10.5	1.2	10.3	7.3	55.6	2.5	1.0	.3	1.2	10.0
Delaware	100.0	6.2	24.3	20.3	8.7	10.7	1.4	6.4	2.9	3.2	15.9
Montana	100.0	25.5	.6	10.6	3.4	28.8	8.7	.9	.0	9.8	11.7
Maine	100.0	7.2	3.6	21.7	6.0	38.4	3.2	.5	1.6	2.2	15.7
Vermont	100.0	11.7	.3	15.8	1.1	57.0	4.0	.5	.1	2.1	7.3
North Dakota	100.0	54.7	.0	4.8	9.8	8.8	12.1	.8	1.1	.9	7.2
Wyoming	100.0	17.4	1.5	9.0	9.0	3.0	11.8	29.2	.3	1.5	17.2
South Dakota	100.0	15.2	2.0	3.5	.0	8.6	37.3	1.3	.0	22.8	9.3
Outlying areas	100.0	7.8	.8	3.6	.6	13.6	64.5	.2	.2	1.6	7.2
Puerto Rico	100.0	18.7	.8	3.3	2.0	45.8	4.2	.6	.1	.0	24.4
Other areas	100.0	3.3	.8	3.7	.0	.5	89.1	.0	.3	2.2	.1
Offices abroad	100.0	7.2	.2	92.6	.0	.0	.0	.1	.0	.0	.0

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SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Alabama, total	2,179,525	738,254	1,226,300	0	192,367	0	21,557	0	1,047
Department of Agriculture	14,488	5,394	0	0	8,962	0	132	0	0
Department of Commerce	2,005	98	1,371	0	499	0	0	0	37
Department of Defense, research [2]	53,187	30,356	12,703	0	9,028	0	1,100	0	0
Department of Defense, total development [3] [4]	1,275,815	420,166	853,925	0	1,724	0	0	0	0
Department of Energy	22,487	50	18,155	0	3,782	0	500	0	0
Department of Health & Human Svcs	146,712	4	2,306	0	127,958	0	16,423	0	21
Department of the Interior	4,167	3,522	0	0	645	0	0	0	0
Department of Transportation	2,170	0	1,291	0	9	0	0	0	870
Environmental Protection Agency	2,388	0	24	0	536	0	1,828	0	0
National Aeronautics and Space Admin	647,066	278,664	336,440	0	30,269	0	1,574	0	119
National Science Foundation	9,040	0	85	0	8,955	0	0	0	0
Alaska, total	93,334	57,988	8,813	0	23,392	0	800	0	2,341
Department of Agriculture	6,708	4,907	0	0	1,791	0	0	0	10
Department of Commerce	34,135	29,258	0	0	4,121	0	0	0	756
Department of Defense, research [2]	1,397	585	162	0	650	0	0	0	0
Department of Defense, total development [3] [4]	8,753	1,041	7,712	0	0	0	0	0	0
Department of Energy	98	0	0	0	98	0	0	0	0
Department of Health & Human Svcs	2,185	0	10	0	1,807	0	100	0	268
Department of the Interior	24,786	22,197	209	0	1,770	0	0	0	610
Department of Transportation	697	0	0	0	0	0	0	0	697
Environmental Protection Agency	15	0	0	0	15	0	0	0	0
National Aeronautics and Space Admin	7,037	0	0	0	6,987	0	50	0	0
National Science Foundation	7,523	0	720	0	6,153	0	650	0	0
Arizona, total	708,774	149,950	370,065	0	148,229	31,072	7,446	0	2,012
Department of Agriculture	18,350	13,831	0	0	4,492	0	27	0	0
Department of Commerce	1,064	0	0	0	814	0	0	0	250
Department of Defense, research [2]	42,911	7,092	12,130	0	23,532	138	19	0	0
Department of Defense, total development [3] [4]	435,540	112,522	322,106	0	912	0	0	0	0
Department of Energy	5,825	0	143	0	5,682	0	0	0	0
Department of Health & Human Svcs	67,779	4,071	1,659	0	56,115	0	5,182	0	752
Department of the Interior	8,612	8,251	29	0	332	0	0	0	0
Department of Transportation	2,779	0	2,103	0	67	0	0	0	609
Environmental Protection Agency	5,058	0	3,057	0	2,001	0	0	0	0
National Aeronautics and Space Admin	58,558	4,183	27,873	0	24,156	0	1,951	0	395
National Science Foundation	62,298	0	965	0	30,126	30,934	267	0	6
Arkansas, total	146,727	104,426	4,116	0	35,597	0	1,971	0	617
Department of Agriculture	15,565	5,560	0	0	9,981	0	0	0	24
Department of Commerce	131	0	0	0	0	0	131	0	0
Department of Defense, research [2]	61,369	59,415	31	0	1,923	0	0	0	0
Department of Defense, total development [3] [4]	6,744	1,586	2,828	0	2,330	0	0	0	0
Department of Energy	200	0	0	0	200	0	0	0	0
Department of Health & Human Svcs	55,589	34,171	676	0	18,902	0	1,840	0	0
Department of the Interior	3,887	3,694	0	0	193	0	0	0	0
Department of Transportation	767	0	73	0	101	0	0	0	593
Environmental Protection Agency	145	0	70	0	75	0	0	0	0
National Aeronautics and Space Admin	479	0	140	0	339	0	0	0	0
National Science Foundation	1,851	0	298	0	1,553	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
California, total	12,617,601	1,281,696	7,136,776	0	1,707,278	1,882,668	415,258	179,859	14,066
Department of Agriculture	71,854	54,270	82	0	17,164	0	324	0	14
Department of Commerce	96,918	17,448	67,921	0	9,916	100	480	0	1,053
Department of Defense, research[2]	786,249	119,897	413,391	0	201,047	18,763	26,522	6,629	0
Department of Defense, total development[3] [4]	6,584,537	720,645	5,577,950	0	53,616	49,968	22,479	159,879	0
Department of Energy	901,842	12,231	59,230	0	88,206	722,459	14,256	0	5,460
Department of Health & Human Svcs	1,351,322	2,199	113,699	0	918,068	16,133	288,297	11,162	1,764
Department of the Interior	46,415	41,494	776	0	3,868	0	220	0	57
Department of Transportation	24,387	2,290	14,079	0	3,264	0	347	0	4,407
Environmental Protection Agency	13,947	0	4,253	0	8,445	0	804	0	445
National Aeronautics and Space Admin	2,447,940	310,681	863,528	0	161,027	1,075,142	34,847	1,934	781
National Science Foundation	292,190	541	21,867	0	242,657	103	26,682	255	85
Colorado, total	1,281,066	178,799	642,652	0	226,849	72,701	50,845	104,851	4,369
Department of Agriculture	27,787	21,425	0	0	6,331	0	31	0	0
Department of Commerce	78,277	74,720	1,594	0	1,388	0	0	0	575
Department of Defense, research[2]	56,378	2,180	33,044	0	20,685	278	191	0	0
Department of Defense, total development[3] [4]	545,099	22,387	521,552	0	1,160	0	0	0	0
Department of Energy	137,837	5,901	17,688	0	8,115	0	1,282	104,851	0
Department of Health & Human Svcs	158,751	893	5,390	0	121,657	0	27,761	0	3,050
Department of the Interior	45,834	42,899	0	0	2,935	0	0	0	0
Department of Transportation	12,107	289	6,595	0	998	0	3,489	0	736
Environmental Protection Agency	5,592	0	657	0	2,050	0	2,885	0	0
National Aeronautics and Space Admin	108,776	7,342	54,496	0	19,777	13,051	14,110	0	0
National Science Foundation	104,628	763	1,636	0	41,753	59,372	1,096	0	8
Connecticut, total	799,412	26,572	514,502	0	242,412	0	10,486	0	5,440
Department of Agriculture	5,721	2,096	0	0	2,740	0	0	0	885
Department of Commerce	20,459	265	17,656	0	2,281	0	204	0	53
Department of Defense, research[2]	42,253	6,223	25,831	0	10,199	0	0	0	0
Department of Defense, total development[3] [4]	366,394	7,769	358,281	0	344	0	0	0	0
Department of Energy	58,377	0	48,075	0	10,302	0	0	0	0
Department of Health & Human Svcs	214,966	19	5,913	0	196,730	0	9,067	0	3,237
Department of the Interior	1,351	1,280	0	0	71	0	0	0	0
Department of Transportation	13,570	8,920	3,536	0	0	0	0	0	1,114
Environmental Protection Agency	619	0	308	0	246	0	0	0	65
National Aeronautics and Space Admin	55,231	0	53,336	0	1,356	0	539	0	0
National Science Foundation	20,471	0	1,566	0	18,143	0	676	0	86
Delaware, total	63,186	6,948	23,233	0	26,245	0	6,461	0	299
Department of Agriculture	3,911	1,037	50	0	2,824	0	0	0	0
Department of Commerce	15,344	759	13,501	0	1,044	0	0	0	40
Department of Defense, research[2]	8,544	575	2,961	0	5,008	0	0	0	0
Department of Defense, total development[3] [4]	4,256	1,299	2,957	0	0	0	0	0	0
Department of Energy	5,509	0	318	0	1,036	0	4,155	0	0
Department of Health & Human Svcs	6,773	0	1,054	0	5,031	0	688	0	0
Department of the Interior	889	579	0	0	281	0	0	0	29
Department of Transportation	4,057	2,699	978	0	150	0	0	0	230
Environmental Protection Agency	1,828	0	520	0	1,308	0	0	0	0
National Aeronautics and Space Admin	2,012	0	733	0	506	0	773	0	0
National Science Foundation	10,063	0	161	0	9,057	0	845	0	0

See explanatory information, if any, and SOURCE at end of table.

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Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intra-mural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
District of Columbia, total	2,575,680	1,847,005	399,855	0	143,358	0	182,772	0	2,690
Department of Agriculture	141,823	132,281	7,825	0	1,337	0	247	0	133
Department of Commerce	10,505	8,926	112	0	1,180	0	75	0	212
Department of Defense, research[2]	231,343	184,617	22,427	0	14,315	0	9,984	0	0
Department of Defense, total development[3] [4]	1,140,585	852,456	268,281	0	19,093	0	755	0	0
Department of Energy	312,708	293,106	6,327	0	7,329	0	5,946	0	0
Department of Health & Human Svcs	178,370	55,078	17,401	0	71,972	0	33,769	0	150
Department of the Interior	13,135	13,038	3	0	20	0	15	0	59
Department of Transportation	132,231	50,698	57,272	0	8,222	0	14,176	0	1,863
Environmental Protection Agency	62,782	47,858	4,510	0	375	0	10,039	0	0
National Aeronautics and Space Admin	251,100	203,016	12,741	0	7,051	0	28,019	0	273
National Science Foundation	101,098	5,931	2,956	0	12,464	0	79,747	0	0
Florida, total	2,960,160	620,939	2,050,876	0	267,213	0	17,317	0	3,815
Department of Agriculture	31,173	20,749	0	0	10,384	0	40	0	0
Department of Commerce	35,005	27,756	807	0	6,260	0	20	0	162
Department of Defense, research[2]	131,698	47,735	38,747	0	36,558	0	8,658	0	0
Department of Defense, total development[3] [4]	1,622,170	276,018	1,339,551	0	6,601	0	0	0	0
Department of Energy	17,250	0	8,028	0	9,222	0	0	0	0
Department of Health & Human Svcs	129,073	4	4,752	0	118,941	0	5,160	0	216
Department of the Interior	12,831	11,153	0	0	1,582	0	0	0	96
Department of Transportation	7,719	0	5,284	0	430	0	0	0	2,005
Environmental Protection Agency	15,225	8,247	4,774	0	1,346	0	25	0	833
National Aeronautics and Space Admin	897,312	229,277	648,130	0	18,910	0	492	0	503
National Science Foundation	60,704	0	803	0	56,979	0	2,922	0	0
Georgia, total	4,136,517	246,737	3,659,788	0	218,994	0	7,772	0	3,226
Department of Agriculture	45,544	34,655	0	0	10,730	0	0	0	159
Department of Commerce	1,289	285	0	0	702	0	292	0	10
Department of Defense, research[2]	62,995	2,282	35,236	0	25,384	0	93	0	0
Department of Defense, total development[3] [4]	3,641,750	17,421	3,609,682	0	10,790	0	3,857	0	0
Department of Energy	9,276	0	0	0	8,712	0	564	0	0
Department of Health & Human Svcs	291,688	172,175	1,444	0	116,043	0	1,849	0	177
Department of the Interior	6,194	5,822	0	0	372	0	0	0	0
Department of Transportation	4,381	40	2,467	0	610	0	0	0	1,264
Environmental Protection Agency	13,829	9,502	939	0	3,388	0	0	0	0
National Aeronautics and Space Admin	26,090	4,555	8,654	0	12,125	0	756	0	0
National Science Foundation	33,481	0	1,366	0	30,138	0	361	0	1,616
Hawaii, total	147,370	57,093	25,124	0	52,298	0	12,042	0	813
Department of Agriculture	20,372	10,230	0	0	4,936	0	5,206	0	0
Department of Commerce	11,006	7,154	200	0	3,358	0	0	0	294
Department of Defense, research[2]	11,727	294	8,619	0	2,814	0	0	0	0
Department of Defense, total development[3] [4]	43,169	28,115	14,349	0	705	0	0	0	0
Department of Energy	3,114	0	307	0	2,760	0	47	0	0
Department of Health & Human Svcs	20,839	0	757	0	15,035	0	5,047	0	0
Department of the Interior	12,205	11,123	0	0	1,082	0	0	0	0
Department of Transportation	656	0	0	0	137	0	0	0	519
Environmental Protection Agency	140	0	0	0	140	0	0	0	0
National Aeronautics and Space Admin	5,670	177	518	0	4,766	0	209	0	0
National Science Foundation	18,472	0	374	0	16,565	0	1,533	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Idaho, total	244,469	25,472	108,708	53,020	56,182	0	637	0	450
Department of Agriculture	17,164	12,858	0	0	4,216	0	45	0	45
Department of Commerce	1,291	1,291	0	0	0	0	0	0	0
Department of Defense, research[2]	4,441	38	3,591	0	812	0	0	0	0
Department of Defense, total development[3,4]	9,461	1,676	4,503	3,239	43	0	0	0	0
Department of Energy	194,037	0	99,639	48,537	45,419	0	442	0	0
Department of Health & Human Svcs	1,787	0	270	0	1,317	0	150	0	50
Department of the Interior	9,783	8,837	34	0	912	0	0	0	0
Department of Transportation	974	0	619	0	0	0	0	0	355
Environmental Protection Agency	265	0	0	0	265	0	0	0	0
National Aeronautics and Space Admin	2,153	772	52	1,244	85	0	0	0	0
National Science Foundation	3,113	0	0	0	3,113	0	0	0	0
Illinois, total	1,093,305	80,585	122,340	0	449,973	390,487	47,502	0	2,418
Department of Agriculture	39,530	29,692	82	0	9,257	0	20	0	479
Department of Commerce	12,764	3	11,618	0	999	144	0	0	0
Department of Defense, research[2]	62,309	12,427	6,814	0	40,651	2,252	165	0	0
Department of Defense, total development[3,4]	72,015	26,074	39,012	0	3,082	2,528	1,319	0	0
Department of Energy	460,828	8,199	34,266	0	33,020	385,343	0	0	0
Department of Health & Human Svcs	289,250	836	5,531	0	244,313	0	38,420	0	150
Department of the Interior	2,442	2,290	0	0	152	0	0	0	0
Department of Transportation	16,958	0	14,198	0	971	0	0	0	1,789
Environmental Protection Agency	1,020	0	270	0	750	0	0	0	0
National Aeronautics and Space Admin	15,597	460	4,130	0	10,579	220	208	0	0
National Science Foundation	120,592	604	6,419	0	106,199	0	7,370	0	0
Indiana, total	435,492	75,603	156,277	0	194,515	0	6,996	0	2,101
Department of Agriculture	15,757	4,744	82	0	10,931	0	0	0	0
Department of Commerce	784	2	320	0	462	0	0	0	0
Department of Defense, research[2]	36,783	2,010	3,255	0	31,510	0	8	0	0
Department of Defense, total development[3,4]	213,865	64,874	143,255	0	59	0	5,677	0	0
Department of Energy	19,080	0	2,510	0	16,570	0	0	0	0
Department of Health & Human Svcs	93,707	104	3,065	0	88,987	0	402	0	1,149
Department of the Interior	2,953	2,873	0	0	80	0	0	0	0
Department of Transportation	1,027	0	0	0	75	0	0	0	952
Environmental Protection Agency	1,376	0	51	0	1,325	0	0	0	0
National Aeronautics and Space Admin	7,511	996	3,097	0	2,995	0	423	0	0
National Science Foundation	42,649	0	642	0	41,521	0	486	0	0
Iowa, total	214,114	28,948	21,020	0	136,945	23,447	2,375	0	1,379
Department of Agriculture	37,874	25,523	82	0	12,246	0	7	0	16
Department of Commerce	1,371	0	10	0	1,357	4	0	0	0
Department of Defense, research[2]	11,356	0	6,356	0	4,965	35	0	0	0
Department of Defense, total development[3,4]	10,779	840	8,359	0	1,528	52	0	0	0
Department of Energy	27,125	0	0	0	3,769	23,356	0	0	0
Department of Health & Human Svcs	86,509	4	99	0	83,419	0	2,363	0	624
Department of the Interior	2,648	2,581	0	0	67	0	0	0	0
Department of Transportation	10,184	0	5,562	0	3,883	0	0	0	739
Environmental Protection Agency	3,564	0	0	0	3,559	0	5	0	0
National Aeronautics and Space Admin	8,018	0	552	0	7,466	0	0	0	0
National Science Foundation	14,686	0	0	0	14,686	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Kansas, total	211,213	13,763	133,691	0	61,732	0	876	0	1,151
Department of Agriculture	12,319	6,363	0	0	5,956	0	0	0	0
Department of Commerce	78	26	52	0	0	0	0	0	0
Department of Defense, research[2]	3,872	464	531	0	2,877	0	0	0	0
Department of Defense, total development[3] [4]	133,216	2,505	130,330	0	381	0	0	0	0
Department of Energy	4,812	0	0	0	4,652	0	0	0	160
Department of Health & Human Svcs	36,068	880	1,640	0	32,315	0	876	0	357
Department of the Interior	3,545	3,525	0	0	20	0	0	0	0
Department of Transportation	1,433	0	24	0	775	0	0	0	634
Environmental Protection Agency	1,410	0	0	0	1,410	0	0	0	0
National Aeronautics and Space Admin	3,094	0	1,096	0	1,998	0	0	0	0
National Science Foundation	11,366	0	18	0	11,348	0	0	0	0
Kentucky, total	79,037	6,022	3,338	0	66,893	0	1,886	0	898
Department of Agriculture	8,290	2	164	0	8,124	0	0	0	0
Department of Commerce	984	1	0	0	0	0	983	0	0
Department of Defense, research[2]	3,056	770	56	0	2,230	0	0	0	0
Department of Defense, total development[3] [4]	5,122	3,366	1,391	0	365	0	0	0	0
Department of Energy	5,799	0	311	0	5,488	0	0	0	0
Department of Health & Human Svcs	43,950	0	1,258	0	41,607	0	903	0	182
Department of the Interior	1,976	1,883	0	0	93	0	0	0	0
Department of Transportation	829	0	113	0	0	0	0	0	716
Environmental Protection Agency	199	0	27	0	172	0	0	0	0
National Aeronautics and Space Admin	935	0	18	0	917	0	0	0	0
National Science Foundation	7,897	0	0	0	7,897	0	0	0	0
Louisiana, total	235,137	46,075	77,573	0	100,247	0	8,733	0	2,509
Department of Agriculture	31,768	24,451	82	0	7,195	0	40	0	0
Department of Commerce	3,693	580	813	0	2,160	0	0	0	140
Department of Defense, research[2]	14,967	5	896	0	14,048	0	18	0	0
Department of Defense, total development[3] [4]	42,296	4,582	35,503	0	2,211	0	0	0	0
Department of Energy	10,269	0	0	0	3,629	0	6,640	0	0
Department of Health & Human Svcs	59,706	3,741	387	0	53,343	0	2,035	0	200
Department of the Interior	17,620	12,716	2,120	0	2,484	0	0	0	300
Department of Transportation	1,105	0	183	0	117	0	0	0	805
Environmental Protection Agency	1,219	0	0	0	1,219	0	0	0	0
National Aeronautics and Space Admin	40,568	0	37,579	0	2,989	0	0	0	0
National Science Foundation	11,926	0	10	0	10,852	0	0	0	1,064
Maine, total	57,631	4,296	11,535	0	15,316	0	22,379	0	4,105
Department of Agriculture	4,124	369	0	0	3,755	0	0	0	0
Department of Commerce	2,079	761	0	0	950	0	184	0	184
Department of Defense, research[2]	2,430	0	466	0	1,699	0	265	0	0
Department of Defense, total development[3] [4]	10,056	1,550	8,235	0	271	0	0	0	0
Department of Energy	3,455	0	900	0	1,384	0	246	0	925
Department of Health & Human Svcs	22,134	0	761	0	650	0	19,387	0	1,336
Department of the Interior	1,842	1,616	0	0	226	0	0	0	0
Department of Transportation	316	0	5	0	31	0	0	0	280
Environmental Protection Agency	918	0	640	0	278	0	0	0	0
National Aeronautics and Space Admin	1,252	0	400	0	59	0	587	0	206
National Science Foundation	9,025	0	128	0	6,013	0	1,710	0	1,174

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Maryland, total	6,732,522	4,341,889	1,403,237	141,390	684,871	0	151,926	5,911	3,298
Department of Agriculture	133,286	121,539	82	0	11,267	0	121	0	277
Department of Commerce	346,065	329,831	9,530	0	5,022	0	1,418	0	264
Department of Defense, research[2]	353,743	222,839	83,819	0	44,201	0	2,126	745	13
Department of Defense, total development[3] [4]	1,981,138	1,135,143	674,381	37	147,403	0	22,045	2,129	0
Department of Energy	50,829	24,123	8,579	0	14,729	0	3,398	0	0
Department of Health & Human Svcs	2,802,771	2,156,256	133,427	141,353	332,068	0	38,270	0	1,397
Department of the Interior	15,828	15,315	105	0	354	0	0	0	54
Department of Transportation	24,855	6,108	14,986	0	2,807	0	0	0	954
Environmental Protection Agency	14,468	0	11,168	0	3,016	0	284	0	0
National Aeronautics and Space Admin	941,508	325,831	453,913	0	81,727	0	76,726	3,037	274
National Science Foundation	68,031	4,904	13,247	0	42,277	0	7,538	0	65
Massachusetts, total	3,179,959	300,198	1,210,405	0	760,972	145,399	613,508	144,204	5,273
Department of Agriculture	21,363	16,334	0	0	4,794	0	235	0	0
Department of Commerce	52,014	32,457	14,936	0	3,249	0	367	0	1,005
Department of Defense, research[2]	286,854	61,444	93,714	0	83,545	29,283	18,315	553	0
Department of Defense, total development[3] [4]	1,397,702	142,819	950,567	0	29,826	115,357	15,494	143,639	0
Department of Energy	90,837	4,752	3,571	0	75,230	0	7,284	0	0
Department of Health & Human Svcs	975,416	1,770	89,991	0	377,600	0	503,919	0	2,136
Department of the Interior	5,353	4,684	5	0	537	127	0	0	0
Department of Transportation	44,087	21,462	18,817	0	1,676	0	0	0	2,132
Environmental Protection Agency	13,467	0	7,002	0	5,461	0	1,004	0	0
National Aeronautics and Space Admin	143,848	12,556	20,721	0	54,116	632	55,811	12	0
National Science Foundation	149,018	1,920	11,081	0	124,938	0	11,079	0	0
Michigan, total	705,915	96,297	159,054	0	404,199	0	43,081	0	3,284
Department of Agriculture	17,534	5,648	0	0	11,886	0	0	0	0
Department of Commerce	25,100	5,995	15,829	0	2,265	0	907	0	104
Department of Defense, research[2]	61,192	17,746	15,589	0	27,120	0	737	0	0
Department of Defense, total development[3] [4]	188,998	59,679	101,624	0	5,637	0	22,058	0	0
Department of Energy	12,655	0	0	0	12,365	0	290	0	0
Department of Health & Human Svcs	273,659	893	9,346	0	252,541	0	9,006	0	1,873
Department of the Interior	6,306	6,186	0	0	101	0	0	0	19
Department of Transportation	6,676	0	458	0	4,950	0	0	0	1,268
Environmental Protection Agency	17,002	0	11,018	0	4,448	0	1,536	0	0
National Aeronautics and Space Admin	21,116	150	3,973	0	11,480	0	5,493	0	20
National Science Foundation	75,677	0	1,217	0	71,406	0	3,054	0	0
Minnesota, total	678,477	31,742	345,050	0	187,673	0	110,073	0	3,939
Department of Agriculture	22,111	14,466	164	0	7,463	0	18	0	0
Department of Commerce	18,358	185	17,114	0	1,059	0	0	0	0
Department of Defense, research[2]	44,703	113	32,057	0	9,079	0	3,454	0	0
Department of Defense, total development[3] [4]	322,288	570	281,251	0	0	0	40,467	0	0
Department of Energy	6,079	0	37	0	6,042	0	0	0	0
Department of Health & Human Svcs	200,207	877	4,595	0	126,589	0	65,344	0	2,802
Department of the Interior	4,312	4,024	8	0	225	0	0	0	55
Department of Transportation	3,722	0	2,475	0	165	0	0	0	1,082
Environmental Protection Agency	15,098	11,507	1,053	0	2,488	0	50	0	0
National Aeronautics and Space Admin	7,559	0	4,701	0	2,485	0	373	0	0
National Science Foundation	34,040	0	1,595	0	32,078	0	367	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Mississippi, total	251,234	129,154	73,189	0	43,447	0	3,479	0	1,965
Department of Agriculture	48,806	34,627	0	0	13,441	0	738	0	0
Department of Commerce	8,246	6,980	0	0	581	0	0	0	685
Department of Defense, research[2]	33,778	23,308	1,426	0	8,447	0	597	0	0
Department of Defense, total development[3] [4]	61,276	42,150	18,609	0	517	0	0	0	0
Department of Energy	1,972	231	794	0	937	0	0	0	10
Department of Health & Human Svcs	12,555	0	100	0	11,701	0	150	0	604
Department of the Interior	2,538	2,116	0	0	379	0	0	0	43
Department of Transportation	1,412	371	320	0	98	0	0	0	623
Environmental Protection Agency	1,077	0	175	0	776	0	126	0	0
National Aeronautics and Space Admin	74,189	19,371	51,765	0	1,185	0	1,868	0	0
National Science Foundation	5,385	0	0	0	5,385	0	0	0	0
Missouri, total	1,270,049	50,779	943,688	0	253,414	0	19,581	0	2,587
Department of Agriculture	19,916	8,745	82	0	11,089	0	0	0	0
Department of Commerce	118	1	0	0	117	0	0	0	0
Department of Defense, research[2]	29,435	6,009	14,368	0	9,056	0	2	0	0
Department of Defense, total development[3] [4]	948,186	25,917	921,796	0	471	0	0	0	0
Department of Energy	5,372	0	0	0	4,772	0	600	0	0
Department of Health & Human Svcs	221,131	4	378	0	203,534	0	15,869	0	1,346
Department of the Interior	10,386	9,828	0	0	518	0	0	0	40
Department of Transportation	2,106	58	218	0	0	0	629	0	1,201
Environmental Protection Agency	159	0	70	0	89	0	0	0	0
National Aeronautics and Space Admin	11,547	217	6,590	0	4,313	0	427	0	0
National Science Foundation	21,693	0	184	0	19,455	0	2,054	0	0
Montana, total	62,500	29,780	5,199	0	20,861	0	5,906	0	754
Department of Agriculture	15,963	11,968	0	0	3,850	0	145	0	0
Department of Commerce	397	0	0	0	300	0	97	0	0
Department of Defense, research[2]	2,066	42	315	0	1,709	0	0	0	0
Department of Defense, total development[3] [4]	4,528	485	3,642	0	401	0	0	0	0
Department of Energy	2,136	0	76	0	1,481	0	413	0	166
Department of Health & Human Svcs	18,007	12,190	550	0	4,047	0	1,171	0	49
Department of the Interior	5,449	5,095	11	0	343	0	0	0	0
Department of Transportation	542	0	0	0	3	0	0	0	539
National Aeronautics and Space Admin	6,130	0	165	0	1,915	0	4,050	0	0
National Science Foundation	7,282	0	440	0	6,812	0	30	0	0
Nebraska, total	88,762	21,114	12,601	0	48,525	0	5,595	0	927
Department of Agriculture	24,533	16,867	0	0	7,666	0	0	0	0
Department of Commerce	241	0	0	0	0	0	0	0	241
Department of Defense, research[2]	2,644	103	265	0	2,276	0	0	0	0
Department of Defense, total development[3] [4]	14,917	1,076	11,097	0	2,744	0	0	0	0
Department of Energy	897	0	0	0	897	0	0	0	0
Department of Health & Human Svcs	28,385	4	653	0	21,912	0	5,595	0	221
Department of the Interior	3,250	3,064	0	0	186	0	0	0	0
Department of Transportation	559	0	62	0	32	0	0	0	465
National Aeronautics and Space Admin	1,112	0	60	0	1,052	0	0	0	0
National Science Foundation	12,224	0	464	0	11,760	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Nevada, total	252,789	40,271	191,470	0	18,630	0	1,987	0	431
Department of Agriculture	1,819	426	0	0	1,378	0	15	0	0
Department of Commerce	6	4	2	0	0	0	0	0	0
Department of Defense, research [2]	7,423	6,197	1,178	0	48	0	0	0	0
Department of Defense, total development [3] [4]	17,720	10,240	6,405	0	955	0	120	0	0
Department of Energy	171,461	1	169,549	0	1,344	0	567	0	0
Department of Health & Human Svcs	6,973	4	0	0	5,601	0	1,276	0	92
Department of the Interior	12,173	11,421	0	0	752	0	0	0	0
Department of Transportation	13,337	0	12,998	0	0	0	0	0	339
Environmental Protection Agency	12,660	11,484	559	0	617	0	0	0	0
National Aeronautics and Space Admin	1,763	494	540	0	729	0	0	0	0
National Science Foundation	7,454	0	239	0	7,206	0	9	0	0
New Hampshire, total	268,186	28,523	171,908	0	65,781	0	1,642	0	332
Department of Agriculture	4,542	2,552	0	0	1,986	0	4	0	0
Department of Commerce	1,563	486	0	0	938	0	99	0	40
Department of Defense, research [2]	43,747	8,571	31,301	0	2,586	0	1,289	0	0
Department of Defense, total development [3] [4]	148,407	13,378	134,215	0	717	0	97	0	0
Department of Energy	1,150	0	8	0	1,142	0	0	0	0
Department of Health & Human Svcs	38,444	0	2,477	0	35,794	0	153	0	20
Department of the Interior	1,217	1,169	0	0	48	0	0	0	0
Department of Transportation	1,258	897	40	0	49	0	0	0	272
Environmental Protection Agency	100	0	0	0	100	0	0	0	0
National Aeronautics and Space Admin	15,581	116	3,561	0	11,904	0	0	0	0
National Science Foundation	12,177	1,354	306	0	10,517	0	0	0	0
New Jersey, total	1,275,500	453,564	553,275	0	190,696	59,366	10,717	4,867	3,015
Department of Agriculture	4,899	38	0	0	4,861	0	0	0	0
Department of Commerce	44,085	13,442	27,632	0	2,837	0	55	0	119
Department of Defense, research [2]	123,965	55,992	38,758	0	29,047	162	6	0	0
Department of Defense, total development [3] [4]	707,774	339,419	361,756	0	1,732	0	0	4,867	0
Department of Energy	81,907	0	9,584	0	12,949	59,096	278	0	0
Department of Health & Human Svcs	101,424	0	8,040	0	82,483	0	9,371	0	1,530
Department of the Interior	3,744	2,959	368	0	337	0	0	0	80
Department of Transportation	62,734	40,530	20,432	0	486	0	0	0	1,286
Environmental Protection Agency	3,564	0	300	0	3,054	0	210	0	0
National Aeronautics and Space Admin	89,452	1,025	80,522	0	7,469	0	436	0	0
National Science Foundation	51,952	159	5,883	0	45,441	108	361	0	0
New Mexico, total	1,953,922	438,313	252,688	641,984	94,348	508,995	15,665	0	1,929
Department of Agriculture	6,560	3,384	0	0	3,172	0	4	0	0
Department of Commerce	275	0	260	0	0	15	0	0	0
Department of Defense, research [2]	138,432	62,786	33,645	8,046	21,935	8,598	3,422	0	0
Department of Defense, total development [3] [4]	619,495	350,951	186,466	65,830	1,018	15,230	0	0	0
Department of Energy	1,056,852	1,264	1,756	559,000	9,845	477,045	7,942	0	0
Department of Health & Human Svcs	35,148	1,132	1,870	0	23,149	5,589	2,478	0	930
Department of the Interior	5,086	4,591	33	20	442	0	0	0	0
Department of Transportation	8,403	0	4,938	0	516	2,000	0	0	949
Environmental Protection Agency	905	0	287	0	273	0	345	0	0
National Aeronautics and Space Admin	68,956	14,122	22,658	9,088	22,435	428	175	0	50
National Science Foundation	13,810	83	775	0	11,563	90	1,299	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
New York, total	2,491,995	134,267	883,225	0	994,383	204,934	194,625	0	80,561
Department of Agriculture	29,812	15,759	246	0	13,066	0	741	0	0
Department of Commerce	18,563	786	11,043	0	5,879	89	0	0	766
Department of Defense, research[2]	129,695	46,914	41,219	0	39,405	867	1,290	0	0
Department of Defense, total development[3] [4]	605,780	56,881	539,107	0	9,079	114	599	0	0
Department of Energy	511,602	4,665	251,745	0	54,578	198,290	2,324	0	0
Department of Health & Human Svcs	946,675	2,132	17,997	0	669,602	3,915	176,528	0	76,501
Department of the Interior	5,441	5,102	59	0	241	0	39	0	0
Department of Transportation	11,637	500	4,674	0	3,817	0	16	0	2,630
Environmental Protection Agency	3,373	0	452	0	2,412	0	489	0	20
National Aeronautics and Space Admin	37,978	1,528	12,888	0	21,684	585	1,252	0	41
National Science Foundation	191,439	0	3,795	0	174,620	1,074	11,347	0	603
North Carolina, total	816,111	199,319	116,319	0	452,735	0	44,049	0	3,689
Department of Agriculture	28,127	14,818	82	0	13,202	0	25	0	0
Department of Commerce	12,123	4,746	3,976	0	3,300	0	0	0	101
Department of Defense, research[2]	55,816	17,529	16,309	0	21,095	0	883	0	0
Department of Defense, total development[3] [4]	79,114	18,695	52,141	0	8,278	0	0	0	0
Department of Energy	12,053	302	0	0	11,056	0	695	0	0
Department of Health & Human Svcs	451,779	63,874	16,317	0	333,979	0	35,376	0	2,233
Department of the Interior	4,131	3,531	20	0	580	0	0	0	0
Department of Transportation	6,519	0	58	0	4,617	0	489	0	1,355
Environmental Protection Agency	109,028	75,780	24,017	0	5,603	0	3,628	0	0
National Aeronautics and Space Admin	10,408	0	755	0	6,814	0	2,839	0	0
National Science Foundation	47,013	44	2,644	0	44,211	0	114	0	0
North Dakota, total	45,055	26,120	692	0	16,605	0	1,002	0	636
Department of Agriculture	24,627	19,904	0	0	4,723	0	0	0	0
Department of Defense, research[2]	600	0	0	0	600	0	0	0	0
Department of Defense, total development[3] [4]	1,560	898	662	0	0	0	0	0	0
Department of Energy	4,393	0	0	0	4,393	0	0	0	0
Department of Health & Human Svcs	3,947	0	0	0	2,678	0	1,002	0	267
Department of the Interior	5,464	5,318	30	0	78	0	0	0	38
Department of Transportation	354	0	0	0	23	0	0	0	331
Environmental Protection Agency	492	0	0	0	492	0	0	0	0
National Aeronautics and Space Admin	387	0	0	0	387	0	0	0	0
National Science Foundation	3,231	0	0	0	3,231	0	0	0	0
Ohio, total	1,683,664	587,005	701,481	0	317,554	0	74,981	0	2,643
Department of Agriculture	15,204	6,836	0	0	8,353	0	8	0	7
Department of Commerce	19,243	95	17,608	0	1,233	0	307	0	0
Department of Defense, research[2]	282,174	154,133	84,536	0	38,576	0	4,929	0	0
Department of Defense, total development[3] [4]	547,800	133,888	403,682	0	5,126	0	5,104	0	0
Department of Energy	20,248	259	12,895	0	6,994	0	100	0	0
Department of Health & Human Svcs	303,414	40,436	5,382	0	201,628	0	55,326	0	642
Department of the Interior	3,622	3,403	0	0	199	0	0	0	20
Department of Transportation	12,458	5,422	1,316	0	2,483	0	1,444	0	1,793
Environmental Protection Agency	56,170	45,476	7,590	0	3,014	0	90	0	0
National Aeronautics and Space Admin	386,772	197,057	168,016	0	13,905	0	7,613	0	181
National Science Foundation	36,559	0	456	0	36,043	0	60	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Oklahoma, total	137,548	45,622	35,668	0	45,749	0	9,320	0	1,189
Department of Agriculture	16,605	9,677	0	0	6,911	0	0	0	17
Department of Commerce	6,503	5,788	565	0	150	0	0	0	0
Department of Defense, research[2]	5,945	964	2,220	0	2,761	0	0	0	0
Department of Defense, total development[3,4]	20,540	10,315	10,042	0	183	0	0	0	0
Department of Energy	24,197	1,374	19,207	0	2,971	0	320	0	325
Department of Health & Human Svcs	30,359	4	336	0	21,140	0	8,708	0	171
Department of the Interior	2,885	2,801	0	0	84	0	0	0	0
Department of Transportation	11,237	8,156	1,729	0	676	0	0	0	676
Environmental Protection Agency	7,689	6,543	672	0	474	0	0	0	0
National Aeronautics and Space Admin	1,140	0	642	0	498	0	0	0	0
National Science Foundation	10,448	0	255	0	9,901	0	292	0	0
Oregon, total	306,830	82,344	50,958	0	130,889	0	35,552	0	7,087
Department of Agriculture	33,690	22,214	82	0	11,240	0	120	0	34
Department of Commerce	23,028	13,066	7,528	0	2,126	0	0	0	308
Department of Defense, research[2]	25,006	5	10,511	0	11,497	0	2,993	0	0
Department of Defense, total development[3,4]	14,481	509	13,968	0	4	0	0	0	0
Department of Energy	33,304	22,617	990	0	8,972	0	200	0	525
Department of Health & Human Svcs	99,857	7	5,868	0	61,921	0	31,544	0	517
Department of the Interior	13,619	13,264	18	0	337	0	0	0	0
Department of Transportation	6,323	0	65	0	655	0	0	0	5,603
Environmental Protection Agency	23,330	10,637	8,298	0	4,145	0	150	0	100
National Aeronautics and Space Admin	6,606	25	1,936	0	4,412	0	233	0	0
National Science Foundation	27,586	0	1,694	0	25,580	0	312	0	0
Pennsylvania, total	1,926,363	153,983	862,988	0	734,089	8,626	164,416	0	2,261
Department of Agriculture	37,344	28,052	0	0	9,073	0	219	0	0
Department of Commerce	15,904	824	13,380	0	1,375	0	277	0	48
Department of Defense, research[2]	129,734	1,185	26,550	0	89,902	6,893	5,204	0	0
Department of Defense, total development[3,4]	626,186	72,881	501,203	0	17,633	1,733	32,736	0	0
Department of Energy	334,026	43,671	268,247	0	18,918	0	3,190	0	0
Department of Health & Human Svcs	601,809	1,150	11,266	0	472,274	0	117,098	0	21
Department of the Interior	5,264	4,765	147	0	322	0	0	0	30
Department of Transportation	11,834	0	7,242	0	1,816	0	614	0	2,162
Environmental Protection Agency	3,484	0	496	0	2,715	0	273	0	0
National Aeronautics and Space Admin	50,576	1,455	33,323	0	14,446	0	1,352	0	0
National Science Foundation	110,202	0	1,134	0	105,615	0	3,453	0	0
Rhode Island, total	583,521	338,150	169,559	0	54,918	0	19,542	0	1,352
Department of Agriculture	1,629	5	0	0	1,583	0	41	0	0
Department of Commerce	3,493	868	0	0	2,580	0	0	0	45
Department of Defense, research[2]	27,759	18,097	2,640	0	6,952	0	70	0	0
Department of Defense, total development[3,4]	473,399	307,313	165,851	0	235	0	0	0	0
Department of Energy	2,961	0	0	0	2,952	0	9	0	0
Department of Health & Human Svcs	42,248	4	507	0	22,952	0	17,855	0	930
Department of the Interior	1,806	1,324	39	0	443	0	0	0	0
Department of Transportation	819	369	128	0	0	0	0	0	322
Environmental Protection Agency	10,231	9,775	134	0	272	0	50	0	0
National Aeronautics and Space Admin	2,950	395	192	0	2,077	0	286	0	0
National Science Foundation	16,226	0	68	0	14,872	0	1,231	0	55

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
South Carolina, total	187,060	36,687	45,624	34,289	63,763	0	3,697	0	3,000
Department of Agriculture	14,083	8,096	0	0	5,987	0	0	0	0
Department of Commerce	18,280	9,745	6,459	0	1,652	0	340	0	84
Department of Defense, research[2]	8,200	87	882	0	7,231	0	0	0	0
Department of Defense, total development[3] [4]	54,986	15,916	36,468	310	428	0	1,864	0	0
Department of Energy	41,094	0	0	33,979	6,026	0	1,089	0	0
Department of Health & Human Svcs	36,346	4	1,351	0	32,900	0	174	0	1,917
Department of the Interior	3,112	2,839	56	0	117	0	0	0	100
Department of Transportation	686	0	0	0	23	0	0	0	663
Environmental Protection Agency	365	0	70	0	295	0	0	0	0
National Aeronautics and Space Admin	2,219	0	18	0	1,789	0	206	0	206
National Science Foundation	7,689	0	320	0	7,315	0	24	0	30
South Dakota, total	34,617	18,244	6,412	0	8,465	0	917	0	579
Department of Agriculture	5,269	2,512	0	0	2,757	0	0	0	0
Department of Commerce	676	9	0	0	292	0	375	0	0
Department of Defense, research[2]	224	16	198	0	10	0	0	0	0
Department of Defense, total development[3] [4]	989	387	602	0	0	0	0	0	0
Department of Health & Human Svcs	2,974	741	335	0	1,181	0	542	0	175
Department of the Interior	12,917	7,772	4,995	0	110	0	0	0	40
Department of Transportation	444	0	4	0	76	0	0	0	364
National Aeronautics and Space Admin	7,902	6,807	64	0	1,031	0	0	0	0
National Science Foundation	3,222	0	214	0	3,008	0	0	0	0
Tennessee, total	558,483	72,615	49,693	239,059	162,343	9,860	23,707	0	1,206
Department of Agriculture	8,478	5	0	0	8,473	0	0	0	0
Department of Commerce	1,025	723	5	0	107	0	190	0	0
Department of Defense, research[2]	17,379	2,078	3,535	2,639	9,123	0	4	0	0
Department of Defense, total development[3] [4]	76,811	57,981	15,848	2,163	819	0	0	0	0
Department of Energy	263,406	455	16,299	231,149	6,353	9,140	10	0	0
Department of Health & Human Svcs	149,196	2,057	2,209	460	120,318	570	23,433	0	149
Department of the Interior	3,509	3,115	0	0	394	0	0	0	0
Department of Transportation	4,305	2,441	119	616	72	0	0	0	1,057
Environmental Protection Agency	1,599	0	858	0	741	0	0	0	0
National Aeronautics and Space Admin	20,213	2,420	10,169	2,032	5,522	0	70	0	0
National Science Foundation	12,562	1,340	651	0	10,421	150	0	0	0
Texas, total	3,493,544	537,802	2,161,664	0	644,151	0	144,245	831	4,851
Department of Agriculture	57,538	42,745	82	0	14,686	0	0	0	25
Department of Commerce	20,071	2,611	13,777	0	3,435	0	248	0	0
Department of Defense, research[2]	109,138	28,897	33,558	0	44,324	0	2,359	0	0
Department of Defense, total development[3] [4]	1,325,181	89,624	1,127,754	0	15,103	0	91,869	831	0
Department of Energy	33,494	0	7,137	0	25,063	0	944	0	350
Department of Health & Human Svcs	469,664	928	7,711	0	427,655	0	32,568	0	802
Department of the Interior	10,486	7,469	175	0	2,372	0	170	0	300
Department of Transportation	16,266	0	8,535	0	1,592	0	2,765	0	3,374
Environmental Protection Agency	8,320	0	5,927	0	2,297	0	96	0	0
National Aeronautics and Space Admin	1,365,003	365,528	955,246	0	31,349	0	12,880	0	0
National Science Foundation	78,383	0	1,762	0	76,275	0	346	0	0

See explanatory information, if any, and SOURCE at end of table

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Utah, total	351,836	133,612	96,659	0	119,623	0	1,236	0	706
Department of Agriculture	12,038	7,890	0	0	4,140	0	8	0	0
Department of Commerce	1,973	0	1,835	0	138	0	0	0	0
Department of Defense, research[2]	15,564	268	6,275	0	9,021	0	0	0	0
Department of Defense, total development[3] [4]	215,205	119,781	81,451	0	13,973	0	0	0	0
Department of Energy	5,553	0	681	0	4,870	0	2	0	0
Department of Health & Human Svcs	67,690	34	2,634	0	63,880	0	862	0	280
Department of the Interior	6,126	5,491	62	0	573	0	0	0	0
Department of Transportation	559	0	131	0	2	0	0	0	426
Environmental Protection Agency	127	0	0	0	127	0	0	0	0
National Aeronautics and Space Admin	6,892	148	2,812	0	3,893	0	39	0	0
National Science Foundation	20,109	0	778	0	19,006	0	325	0	0
Vermont, total	46,624	6,564	5,513	0	33,406	0	840	0	301
Department of Agriculture	5,451	1,849	0	0	3,602	0	0	0	0
Department of Commerce	148	17	0	0	131	0	0	0	0
Department of Defense, research[2]	1,277	0	321	0	956	0	0	0	0
Department of Defense, total development[3] [4]	6,075	2,954	3,038	0	83	0	0	0	0
Department of Energy	500	0	0	0	500	0	0	0	0
Department of Health & Human Svcs	26,588	0	1,067	0	24,681	0	840	0	0
Department of the Interior	1,874	1,744	60	0	70	0	0	0	0
Department of Transportation	247	0	0	0	0	0	0	0	247
Environmental Protection Agency	54	0	0	0	0	0	0	0	54
National Aeronautics and Space Admin	996	0	718	0	278	0	0	0	0
National Science Foundation	3,414	0	309	0	3,105	0	0	0	0
Virginia, total	4,601,548	1,580,204	2,536,729	0	209,552	58,890	35,275	178,366	2,532
Department of Agriculture	9,637	817	0	0	7,927	0	893	0	0
Department of Commerce	18,738	9,642	6,385	0	1,894	0	675	0	142
Department of Defense, research[2]	338,793	113,280	185,699	0	28,945	0	321	10,548	0
Department of Defense, total development[3] [4]	3,329,149	1,132,668	2,031,174	0	3,362	0	340	161,605	0
Department of Energy	87,582	11,960	5,600	0	8,693	58,890	2,439	0	0
Department of Health & Human Svcs	148,011	840	31,249	0	105,008	0	9,748	0	1,166
Department of the Interior	41,056	40,070	199	0	734	0	53	0	0
Department of Transportation	36,983	3,054	25,245	0	1,195	0	350	5,958	1,181
Environmental Protection Agency	23,729	0	22,470	0	648	0	611	0	0
National Aeronautics and Space Admin	508,704	265,539	215,642	0	16,144	0	11,336	0	43
National Science Foundation	59,166	2,334	13,066	0	35,002	0	8,509	255	0
Washington, total	1,150,045	198,909	394,330	0	326,868	0	106,351	118,497	5,090
Department of Agriculture	32,106	20,217	0	0	11,879	0	10	0	0
Department of Commerce	72,277	65,538	2,724	0	3,823	0	32	0	160
Department of Defense, research[2]	42,522	813	13,240	0	23,621	0	2,066	2,782	0
Department of Defense, total development[3] [4]	386,161	88,715	292,596	0	1,304	0	1,690	1,856	0
Department of Energy	138,427	8,500	5,204	0	18,597	0	0	106,126	0
Department of Health & Human Svcs	329,041	1,023	10,952	0	208,550	0	97,723	7,194	3,599
Department of the Interior	14,117	12,742	13	0	1,362	0	0	0	0
Department of Transportation	6,431	0	3,105	0	145	0	2,100	0	1,081
Environmental Protection Agency	2,737	0	291	0	1,922	0	274	0	250
National Aeronautics and Space Admin	72,958	1,361	62,202	0	9,246	0	149	0	0
National Science Foundation	53,268	0	4,003	0	46,419	0	2,307	539	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

State and agency	Total	Intra-mural[1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
West Virginia, total	253,880	101,957	98,016	0	17,553	29,776	5,251	0	1,327
Department of Agriculture	19,110	14,475	0	0	3,339	0	1,275	0	21
Department of Commerce	840	490	0	0	0	0	350	0	0
Department of Defense, research[2]	3,649	0	623	0	1,200	0	1,826	0	0
Department of Defense, total development[3] [4]	12,490	1,297	11,163	0	30	0	0	0	0
Department of Energy	127,777	45,165	80,436	0	2,076	0	100	0	0
Department of Health & Human Svcs	41,191	33,518	0	0	6,730	0	200	0	743
Department of the Interior	5,865	5,755	0	0	80	0	0	0	30
Department of Transportation	1,454	0	671	0	250	0	0	0	533
National Aeronautics and Space Admin	8,722	1,257	5,123	0	842	0	1,500	0	0
National Science Foundation	32,782	0	0	0	3,006	29,776	0	0	0
Wisconsin, total	331,547	37,827	36,170	0	246,991	0	8,103	0	2,456
Department of Agriculture	32,770	23,730	240	0	8,742	0	0	0	58
Department of Commerce	4,795	514	2,244	0	2,037	0	0	0	0
Department of Defense, research[2]	20,692	3	11,604	0	9,085	0	0	0	0
Department of Defense, total development[3] [4]	5,245	300	3,766	0	1,179	0	0	0	0
Department of Energy	15,680	0	0	0	15,680	0	0	0	0
Department of Health & Human Svcs	162,331	0	2,991	0	149,936	0	8,032	0	1,372
Department of the Interior	11,880	11,579	0	0	219	0	0	0	82
Department of Transportation	3,443	1,701	170	0	628	0	0	0	944
Environmental Protection Agency	869	0	60	0	809	0	0	0	0
National Aeronautics and Space Admin	27,042	0	15,095	0	11,876	0	71	0	0
National Science Foundation	46,800	0	0	0	46,800	0	0	0	0
Wyoming, total	37,777	9,806	278	0	14,555	0	12,474	0	664
Department of Agriculture	6,576	4,400	0	0	2,158	0	18	0	0
Department of Commerce	583	0	0	0	526	0	0	0	57
Department of Defense, research[2]	2,104	0	91	0	2,013	0	0	0	0
Department of Defense, total development[3] [4]	1,301	1,300	1	0	0	0	0	0	0
Department of Energy	3,412	0	20	0	341	0	3,000	0	51
Department of Health & Human Svcs	1,136	0	76	0	856	0	27	0	177
Department of the Interior	4,458	4,106	0	0	338	0	0	0	14
Department of Transportation	11,031	0	0	0	1,237	0	9,429	0	365
Environmental Protection Agency	129	0	0	0	129	0	0	0	0
National Aeronautics and Space Admin	549	0	90	0	459	0	0	0	0
National Science Foundation	6,498	0	0	0	6,498	0	0	0	0
Outlying areas, total	170,430	96,116	340	0	57,005	8,271	251	0	8,447
Department of Agriculture	13,244	5,120	0	0	8,123	0	1	0	0
Department of Commerce	1,383	819	0	0	394	0	0	0	170
Department of Defense, research[2]	2,681	0	330	0	2,351	0	0	0	0
Department of Defense, total development[3] [4]	3,404	3,394	10	0	0	0	0	0	0
Department of Energy	999	0	0	0	999	0	0	0	0
Department of Health & Human Svcs	23,224	877	0	0	21,953	0	250	0	144
Department of the Interior	109,896	85,906	0	0	16,123	0	0	0	7,867
Department of Transportation	293	0	0	0	27	0	0	0	266
Environmental Protection Agency	424	0	0	0	424	0	0	0	0
National Aeronautics and Space Admin	2,688	0	0	0	2,688	0	0	0	0
National Science Foundation	12,194	0	0	0	3,923	8,271	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1996

[Dollars in thousands]

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State and agency	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Puerto Rico, total	49,450	8,076	45	0	32,347	8,271	251	0	460
Department of Agriculture	9,251	5,120	0	0	4,130	0	1	0	0
Department of Commerce	379	0	0	0	329	0	0	0	50
Department of Defense, research[2]	1,611	0	35	0	1,576	0	0	0	0
Department of Defense, total development[3] [4]	10	0	10	0	0	0	0	0	0
Department of Energy	999	0	0	0	999	0	0	0	0
Department of Health & Human Svcs	22,671	877	0	0	21,400	0	250	0	144
Department of the Interior	2,099	2,079	0	0	20	0	0	0	0
Department of Transportation	293	0	0	0	27	0	0	0	266
Environmental Protection Agency	70	0	0	0	70	0	0	0	0
National Science Foundation	12,067	0	0	0	3,796	8,271	0	0	0
Other areas, total	120,980	88,040	295	0	24,658	0	0	0	7,987
Department of Agriculture	3,993	0	0	0	3,993	0	0	0	0
Department of Commerce	1,004	819	0	0	65	0	0	0	120
Department of Defense, research[2]	1,070	0	295	0	775	0	0	0	0
Department of Defense, total development[3] [4]	3,394	3,394	0	0	0	0	0	0	0
Department of Health & Human Svcs	553	0	0	0	553	0	0	0	0
Department of the Interior	107,797	83,827	0	0	16,103	0	0	0	7,867
Environmental Protection Agency	354	0	0	0	354	0	0	0	0
National Aeronautics and Space Admin	2,688	0	0	0	2,688	0	0	0	0
National Science Foundation	127	0	0	0	127	0	0	0	0
Offices abroad, total	48,485	20,844	27,309	0	332	0	0	0	0
Department of Agriculture	3,483	3,464	0	0	19	0	0	0	0
Department of Commerce	99	99	0	0	0	0	0	0	0
Department of Defense, research[2]	1,616	1,192	111	0	313	0	0	0	0
Department of Defense, total development[3] [4]	43,262	16,089	27,173	0	0	0	0	0	0
Department of Transportation	25	0	25	0	0	0	0	0	0

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[1] Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

[3] Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

[4] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1996.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-86. Federal obligations for R&D plant for selected agencies, by State and category of performer supported: fiscal year 1996

[Dollars in thousands]

Page 1 of 1

State	Total	Intramural [1]	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Total	1,736,607	396,290	465,231	43,868	243,035	497,753	23,370	66,081	979
Alabama	48,867	69	45,716	0	3,082	0	0	0	0
Alaska	160	0	0	0	160	0	0	0	0
Arizona	2,959	404	81	0	2,474	0	0	0	0
Arkansas	12,505	11,535	0	0	970	0	0	0	0
California	341,238	11,481	52,917	0	90,952	184,823	1,065	0	0
Colorado	28,422	6,288	1,244	0	1,825	13,257	3,400	2,408	0
Connecticut	3,559	0	17	0	3,017	0	0	0	525
Delaware	2,031	44	0	0	1,803	0	184	0	0
District of Columbia	4,634	1,468	1,418	0	1,431	0	317	0	0
Florida	65,278	1,167	58,836	0	5,275	0	0	0	0
Georgia	4,570	2,323	167	0	2,080	0	0	0	0
Hawaii	1,657	1,470	0	0	187	0	0	0	0
Idaho	19,160	18,359	157	493	151	0	0	0	0
Illinois	147,324	2,512	1,894	0	14,273	128,645	0	0	0
Indiana	15,196	226	12,358	0	2,612	0	0	0	0
Iowa	10,074	2,851	0	0	2,901	4,322	0	0	0
Kansas	1,468	1,030	20	0	418	0	0	0	0
Kentucky	2,426	0	2,208	0	218	0	0	0	0
Louisiana	26,526	8,052	15,316	0	3,158	0	0	0	0
Maine	160	37	0	0	123	0	0	0	0
Maryland	240,224	171,815	60,658	1,500	6,251	0	0	0	0
Massachusetts	14,125	854	594	0	10,977	0	1,700	0	0
Michigan	6,277	314	2,865	0	3,098	0	0	0	0
Minnesota	6,278	1,033	0	0	2,952	0	2,293	0	0
Mississippi	32,777	4,411	23,682	0	4,684	0	0	0	0
Missouri	4,428	85	0	0	468	0	3,875	0	0
Montana	5,767	4,537	0	0	1,230	0	0	0	0
Nebraska	1,031	796	0	0	235	0	0	0	0
Nevada	16,100	0	16,100	0	0	0	0	0	0
New Hampshire	621	145	0	0	476	0	0	0	0
New Jersey	26,703	20,810	548	0	4,287	1,056	0	0	2
New Mexico	77,548	160	5,327	23,751	2,178	46,132	0	0	0
New York	164,605	34,954	0	0	17,612	109,092	2,495	0	452
North Carolina	20,471	15,333	0	0	5,138	0	0	0	0
North Dakota	1,450	1,153	297	0	0	0	0	0	0
Ohio	67,541	21,574	42,551	0	3,416	0	0	0	0
Oklahoma	3,171	1,800	291	0	1,080	0	0	0	0
Oregon	8,099	769	101	0	6,229	0	1,000	0	0
Pennsylvania	51,259	34,662	3,980	0	6,955	0	5,662	0	0
Rhode Island	3,943	0	0	0	3,943	0	0	0	0
South Carolina	2,234	470	457	0	1,307	0	0	0	0
South Dakota	2,952	242	90	0	2,620	0	0	0	0
Tennessee	22,949	0	691	18,124	2,583	1,551	0	0	0
Texas	56,498	7,022	44,174	0	3,923	0	1,379	0	0
Utah	2,642	352	0	0	2,290	0	0	0	0
Vermont	2,205	0	0	0	2,205	0	0	0	0
Virginia	69,673	0	59,831	0	967	8,875	0	0	0
Washington	71,828	657	1,544	0	5,954	0	0	63,673	0
West Virginia	2,600	1,492	1,047	0	61	0	0	0	0
Wisconsin	3,047	611	0	0	2,436	0	0	0	0
Wyoming	465	215	0	0	250	0	0	0	0
Outlying areas	8,334	160	8,054	0	120	0	0	0	0
Puerto Rico	280	160	0	0	120	0	0	0	0
Other areas	8,054	0	8,054	0	0	0	0	0	0
Offices abroad	548	548	0	0	0	0	0	0	0

[1] Federal installations

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 99 percent of total Federal R&D obligations in fiscal year 1996.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-87. Federal obligations for R&D plant, by State and selected agency: fiscal year 1996

[Dollars in thousands]

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State	Total	Dept of Agriculture	Dept of Commerce	Dept of Defense	Dept of Energy	Dept of Health & Human Services	Dept of the Interior	Dept of Transportation	EPA	NASA	National Science Foundation
Total	1,736,607	128,413	84,481	46,826	705,895	133,094	1,920	31,841	0	416,945	187,192
Alabama	48,867	1,367	0	0	0	1,500	0	0	0	45,716	284
Alaska	160	0	0	0	0	0	0	0	0	0	160
Arizona	2,959	404	0	0	0	1,500	0	0	0	81	974
Arkansas	12,505	10,330	0	0	0	2,175	0	0	0	0	0
California	341,238	6,040	0	9,364	188,760	1,307	0	0	0	43,978	91,789
Colorado	28,422	1,816	4,472	6	2,877	43	0	3,400	0	0	15,808
Connecticut	3,559	1,307	0	17	163	0	0	525	0	0	1,547
Delaware	2,031	1,742	0	0	0	0	0	0	0	0	289
District of Columbia	4,634	1,239	0	141	1,704	735	0	0	0	8	807
Florida	65,278	2,556	0	2	565	0	0	0	0	58,900	3,255
Georgia	4,570	1,702	0	129	0	1,621	0	0	0	38	1,080
Hawaii	1,657	560	0	0	0	0	0	0	0	910	187
Idaho	19,160	1,059	0	157	17,793	0	0	0	0	0	151
Illinois	147,324	4,259	0	79	129,939	700	0	0	0	1,294	11,053
Indiana	15,196	226	0	0	696	0	0	0	0	12,358	1,916
Iowa	10,074	2,851	0	0	4,336	1,000	0	0	0	0	1,887
Kansas	1,468	1,030	0	0	56	0	0	0	0	20	362
Kentucky	2,426	0	0	0	0	0	0	0	0	2,208	218
Louisiana	26,526	8,594	0	152	22	1,700	0	0	0	15,164	894
Maine	160	37	0	0	0	0	0	0	0	0	123
Maryland	240,224	10,914	80,009	3,428	90	85,787	0	0	0	57,532	2,464
Massachusetts	14,125	1,824	0	275	7,326	2,322	0	0	0	319	2,059
Michigan	6,277	314	0	0	405	1,221	0	0	0	2,865	1,472
Minnesota	6,278	1,033	0	0	85	3,603	0	0	0	0	1,557
Mississippi	32,777	8,829	0	1,319	266	0	0	0	0	22,363	0
Missouri	4,428	3,960	0	0	187	0	0	0	0	0	281
Montana	5,767	160	0	0	0	4,377	0	0	0	0	1,230
Nebraska	1,031	796	0	0	0	0	0	0	0	0	235
Nevada	16,100	0	0	0	16,100	0	0	0	0	0	0
New Hampshire	621	145	0	0	0	0	0	0	0	0	476
New Jersey	26,703	2,194	0	0	1,405	0	760	20,600	0	0	1,744
New Mexico	77,548	1,580	0	0	70,043	0	0	0	0	5,327	598
New York	164,605	6,547	0	0	138,592	2,170	0	0	0	0	17,296
North Carolina	20,471	2,997	0	0	350	16,243	0	0	0	0	881
North Dakota	1,450	1,153	0	0	0	0	0	0	0	297	0
Ohio	67,541	195	0	21,810	97	0	0	0	0	42,052	3,387
Oklahoma	3,171	1,794	0	0	777	0	0	0	0	0	600
Oregon	8,099	5,619	0	0	215	1,312	0	0	0	101	852
Pennsylvania	51,259	8,637	0	162	27,947	0	0	0	0	4,598	9,915
Rhode Island	3,943	3,738	0	0	117	0	0	0	0	0	88
South Carolina	2,234	210	0	0	0	700	0	0	0	717	607
South Dakota	2,952	2,862	0	90	0	0	0	0	0	0	0
Tennessee	22,949	1,870	0	0	20,182	0	0	0	0	558	339
Texas	56,498	4,649	0	1,062	220	2,379	0	0	0	46,843	1,345
Utah	2,642	352	0	0	0	0	0	0	0	0	2,290
Vermont	2,205	1,940	0	0	0	0	0	0	0	0	265
Virginia	69,673	0	0	201	8,875	0	1,160	7,316	0	51,154	967
Washington	71,828	5,035	0	0	63,713	699	0	0	0	1,544	837
West Virginia	2,600	791	0	0	1,748	0	0	0	0	0	61
Wisconsin	3,047	611	0	0	244	0	0	0	0	0	2,192
Wyoming	465	215	0	0	0	0	0	0	0	0	250
Outlying areas	8,334	160	0	8,054	0	0	0	0	0	0	120
Puerto Rico	280	160	0	0	0	0	0	0	0	0	120
Other areas	8,054	0	0	8,054	0	0	0	0	0	0	0
Offices abroad	548	170	0	378	0	0	0	0	0	0	0

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Interior, Transportation, and Health and Human Services; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 99 percent of total Federal R&D obligations in fiscal year 1996.

KEY:
EPA = Environmental Protection Agency
NASA = National Aeronautics & Space Administration

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 1 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Per cent of total	Total	Personnel costs	Per cent of total	Total	Personnel costs	Per cent of total
Total, all agencies	16.596.362	7.758.630	47	17.438.375	8.166.815	47	16.806.462	7.717.878	46
Departments:									
Department of Agriculture, total	899.616	553.890	62	924.055	580.348	63	936.966	591.451	63
Agricultural Marketing Service	4.408	1.452	33	4.809	1.629	34	4.773	1.654	35
Agricultural Research Service[1]	638.536	359.942	56	651.483	383.463	59	664.017	392.766	59
Animal & Plant Hlth Inspection Svc	17.605	11.795	67	18.636	13.604	73	17.774	12.975	73
Cooperative State Research, Education, & Extension Service[2]	15.797	13.395	85	19.641	14.376	73	19.089	13.511	71
Economic Research Service	49.930	36.995	74	53.109	38.070	72	54.310	38.865	72
Food Safety Inspection Service	1.645	1.168	71	2.700	1.917	71	3.200	2.272	71
Foreign Agricultural Service[3]	856	856	100	922	922	100	922	922	100
Forest Service	163.290	122.000	75	165.100	120.000	73	165.100	122.000	74
Grain Inspection Packers & Stockyards Administration[4]	2.537	2.029	80	2.752	2.202	80	2.783	2.226	80
Nat'l Agricultural Statistics Svc	3.661	2.907	79	3.735	2.997	80	3.782	3.044	80
Rural Business-Cooperative Svc[5]	1.351	1.351	100	1.168	1.168	100	1.216	1.216	100
Department of Commerce, total	675.094	459.886	68	714.592	450.303	63	705.243	453.191	64
Bureau of the Census	6.258	2.806	45	4.886	3.096	63	4.886	3.096	63
Economic Development Admin	50	50	100	50	50	100	50	50	100
National Inst of Standards & Tech	212.626	136.328	64	225.715	148.758	66	222.367	154.512	69
Nat'l Oceanic & Atmospheric Admin	451.500	316.042	70	469.953	284.411	61	459.135	276.728	60
National Telecommunications & Information Administration	4.659	4.659	100	13.987	13.987	100	18.804	18.804	100
Office of the Secretary	1	1	100	1	1	100	1	1	100
Department of Defense, total	8.148.081	3.378.630	41	8.669.564	3.608.910	42	7.698.823	2.911.673	38
Department of the Army	2.241.578	1.296.864	58	2.532.357	1.465.074	58	1.975.804	790.601	40
Department of the Navy	2.849.560	1.224.317	43	3.110.349	1.335.930	43	2.995.512	1.291.243	43
Department of the Air Force	1.161.404	312.641	27	1.134.907	336.138	30	994.074	328.728	33
Defense Agencies, total	1.666.384	542.040	33	1.669.399	469.328	28	1.484.381	498.348	34
Ballistic Missile Defense Organization	451.644	106.292	24	643.988	111.070	17	487.636	109.985	23
Defense Advanced Research Projects Agency[6]	391.779	285.171	73	322.223	232.935	72	329.449	237.321	72
Defense Information Systems Agency	20.621	9.583	46	14.857	9.631	65	16.104	9.940	62
Defense Logistics Agency	11.652	2.197	19	11.483	2.566	22	13.426	2.301	17
Defense Special Weapons Agency[7]	61.848	1.450	2	42.007	984	2	53.790	695	1
Joint Staff	5.526	1	*	35.836	1	*	67.189	30	*
Special Operations Command	52.031	4.697	9	42.080	3.883	9	38.564	3.596	9
Washington Headquarters Services[8 9 10]	671.283	132.649	20	556.925	108.258	19	478.223	134.480	28
Operational Test & Evaluation, Director	8.800	564	6	12.025	335	3	7.721	340	4
Test & Evaluation, Deputy Under Secretary of Defense	220.355	2.204	1	210.527	2.105	1	241.331	2.413	1
Department of Education	8.832	6.100	69	8.799	6.247	71	9.567	6.697	70
Department of Energy	488.826	108.526	22	486.709	100.432	21	636.872	101.287	16
Dept of Health & Human Svcs, total	2.594.938	1.236.272	48	2.804.053	1.253.805	45	2.872.295	1.401.677	49
Administration on Aging	854	577	68	426	288	68	426	288	68
Admin for Children & Families	872	307	35	716	516	72	763	763	100
Agcy for Hlth Care Policy & Rsch	33.544	19.077	57	46.905	20.200	43	51.378	23.179	45
Centers for Disease Control & Prevention	240.847	204.720	85	287.104	244.039	35	298.553	253.770	85
Food & Drug Administration	151.879	136.691	90	151.322	136.190	90	152.152	136.937	90
Health Care Financing Admin	50	10	20	58	10	17	50	10	20
Health Resources & Services Admin	2.490	2.365	95	2.505	2.376	95	520	387	74
National Institutes of Health[11]	2.159.453	870.685	40	2.300.832	848.257	37	2.363.822	983.232	42
Office of the Secretary, total	4.260	1.839	43	13.386	1.928	14	3.824	3.110	81
Office of the Asst Secretary, Planning & Evaluation	3.951	1.530	39	13.200	1.742	13	3.714	3.000	81
Off of Public Health & Science	309	309	100	186	186	100	110	110	100
Substance Abuse & Mental Health Services Administration	689	1	*	799	1	*	807	1	*

See explanatory information, if any, and SOURCE at end of table

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

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Agency and subdivision	1996			Preliminary					
	Total	Personnel costs	Percent of total	1997			1998		
				Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Dept of Housing & Urban Dvlpmt	20,498	16,300	80	20,459	16,300	80	24,830	19,800	80
Department of the Interior, total	499,921	267,973	54	504,737	270,379	54	521,937	286,032	55
Bureau of Reclamation	5,533	2,746	50	6,495	3,224	50	6,672	3,312	50
Geological Survey[12]	479,372	253,107	53	482,545	254,302	53	499,113	269,521	54
Minerals Management Service	5,259	3,625	69	5,498	3,966	72	5,791	4,155	72
National Park Service[13]	9,757	8,495	87	10,199	8,887	87	10,361	9,044	87
Department of Justice, total	38,294	5,941	16	41,020	5,965	15	40,467	6,212	15
Bureau of Prisons	2,300	1,950	85	2,400	1,900	79	2,400	1,900	79
Drug Enforcement Administration	500	145	29	100	100	100	110	110	100
Federal Bureau of Investigation	33,458	3,489	10	35,880	3,525	10	35,917	3,562	10
Immigration & Naturalization Svc	40	40	100	40	40	100	40	40	100
Office of Justice Programs	1,996	317	16	2,600	400	15	2,000	600	30
Department of Labor, total	13,434	6,706	50	17,765	7,199	41	18,145	7,754	43
Bureau of Labor Statistics	8,200	2,144	26	12,600	2,203	17	12,400	2,181	18
Employment & Training Admin	1,813	1,141	63	1,350	1,181	87	1,387	1,215	88
Occupational Safety & Hlth Admin	1,298	1,298	100	1,336	1,336	100	1,385	1,385	100
Office of the Secretary	1,031	1,031	100	1,361	1,361	100	1,828	1,828	100
Pension Benefit Guaranty Corp	238	238	100	243	243	100	248	248	100
Pension & Welfare Benefits Admin	854	854	100	875	875	100	897	897	100
Department of State, total	253	253	100	333	333	100	333	333	100
Department of Transportation, total	156,005	93,832	60	164,309	98,102	60	202,393	101,338	50
Coast Guard	14,208	6,314	44	17,722	7,518	42	13,969	5,998	43
Federal Aviation Administration	64,472	64,472	100	66,678	66,678	100	69,601	69,601	100
Federal Highway Administration	38,161	9,476	25	41,350	10,031	24	76,112	10,597	14
Federal Railroad Administration	12,944	2,173	17	8,941	2,181	24	9,818	2,283	23
Federal Transit Administration	3,231	2,174	67	2,523	2,210	88	2,570	2,269	88
National Highway Traffic Safety Administration	16,295	5,378	33	18,221	6,013	33	21,400	7,062	33
Office of the Secretary	2,808	2,138	76	2,718	1,768	65	4,268	1,798	42
Research & Special Programs Admin	3,886	1,707	44	6,156	1,703	28	4,655	1,730	37
Department of the Treasury, total	37,349	35,012	94	38,966	36,303	93	39,233	36,356	93
Bureau of Engraving & Printing	1,545	234	15	1,556	164	11	1,800	190	11
Internal Revenue Service	32,162	31,271	97	33,713	32,593	97	33,713	32,593	97
Office of Thrift Supervision	537	402	75	574	423	74	583	436	75
United States Customs Service	2,855	2,855	100	2,850	2,850	100	2,860	2,860	100
United States Mint	0	0	0	37	37	100	0	0	0
United States Secret Service[14]	250	250	100	236	236	100	277	277	100
Department of Veterans Affairs	254,355	166,875	66	274,148	180,938	66	238,669	157,521	66
Other agencies:									
Appalachian Regional Commission	100	100	100	100	100	100	100	100	100
Consumer Product Safety Commission	30	30	100	0	0	0	6	6	100
Environmental Protection Agency	236,809	189,446	80	257,057	205,646	80	282,508	226,007	80
Federal Communications Commission	2,801	2,801	100	3,378	3,378	100	3,198	3,198	100
Federal Trade Commission	505	71	14	505	70	14	509	74	15
Internat'l Development Cooperation Agency, total	33,300	25,100	75	18,700	14,480	77	25,570	19,030	74
Agency for Internat'l Dvlpmt[15]	33,300	25,100	75	18,700	14,480	77	25,570	19,030	74
Library of Congress	10,579	10,579	100	9,914	9,914	100	11,654	11,027	95
National Aeronautics & Space Admin	2,257,525	1,060,713	47	2,248,398	1,178,706	52	2,317,999	1,239,845	53
National Archives & Records Admin	120	120	100	120	120	100	120	120	100
National Science Foundation	19,977	13,984	70	18,148	12,704	70	17,923	12,546	70
Nuclear Regulatory Commission	14,165	10,777	76	13,044	10,343	79	13,536	10,629	79
Smithsonian Institution	127,000	82,550	65	129,000	83,850	65	132,000	85,800	65
Social Security Administration[16]	1,852	1,852	100	1,379	1,379	100	5,055	5,055	100
Tennessee Valley Authority	52,567	21,009	40	62,668	25,578	41	44,000	18,356	42

See explanatory information, if any, and SOURCE at end of table.

Table C-88. Federal obligations for total research and development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 3 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
US Arms Control & Disarmament Agcy	199	109	55	525	200	38	431	164	38
United States Information Agency	149	5	3	136	5	4	100	5	5
US Internat'l Trade Commission	3,188	3,188	100	5,794	4,778	82	5,980	4,594	77

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[11] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[12] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[13] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[14] The United States Secret Service was formerly listed as the Office of Protective Research.

[15] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[16] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-89. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 1 of 2

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	2,689,191	1,282,460	48	2,756,447	1,293,446	47	2,717,579	1,385,309	51
Departments									
Department of Agriculture, total	383,421	226,203	59	385,345	235,369	61	390,843	239,819	61
Agricultural Research Service[1]	344,809	194,369	56	345,286	203,235	59	351,929	208,166	59
Cooperative State Research, Education, & Extension Service[2]	7,093	5,760	81	8,746	6,199	71	7,464	5,283	71
Economic Research Service	4,993	3,700	74	5,310	3,807	72	5,431	3,886	72
Foreign Agricultural Service[3]	642	642	100	692	692	100	692	692	100
Forest Service	24,635	20,740	84	24,020	20,400	85	24,020	20,740	86
Nat'l Agricultural Statistics Svc	1,249	992	79	1,291	1,036	80	1,307	1,052	80
Department of Commerce, total	32,442	22,537	69	36,029	24,663	68	35,539	25,595	72
Bureau of the Census	850	391	46	1,010	618	61	1,010	618	61
National Inst of Standards & Tech	31,592	22,146	70	35,019	24,045	69	34,529	24,977	72
Department of Defense, total	294,811	133,137	45	284,075	128,330	45	323,893	141,432	44
Department of the Army	90,258	46,792	52	83,059	50,277	61	98,347	56,368	57
Department of the Navy	148,025	65,013	44	128,887	56,607	44	144,141	63,307	44
Department of the Air Force	38,818	17,241	44	60,820	17,689	29	70,031	17,833	25
Defense Agencies, total	17,710	4,091	23	11,309	3,757	33	11,374	3,924	34
Ballistic Missile Defense Organization	709	136	19	3,852	36	1	5,357	437	8
Defense Advanced Research Projects Agency[4]	3,842	2,881	75	4,007	3,005	75	3,687	2,765	75
Washington Headquarters Services[5 6 7]	13,159	1,074	8	3,450	716	21	2,330	722	31
Department of Education	149	99	66	141	99	70	136	95	70
Department of Energy	49,134	5,508	11	63,910	5,285	8	72,964	5,161	7
Dept of Health & Human Svcs, total	1,162,353	495,635	43	1,238,387	482,893	39	1,150,004	558,572	49
Health Resources & Services Admin	1,000	1,000	100	1,000	1,000	100	0	0	0
National Institutes of Health[8]	1,161,353	494,635	43	1,237,387	481,893	39	1,150,004	558,572	49
Department of the Interior, total	52,846	27,870	53	52,343	27,553	53	60,753	32,774	54
Geological Survey[9]	52,635	27,791	53	52,132	27,474	53	60,553	32,699	54
National Park Service[10]	211	79	37	211	79	37	200	75	38
Department of Justice, total	882	139	16	200	116	58	1,000	200	20
Office of Justice Programs	882	139	16	200	116	58	1,000	200	20
Department of Labor, total	6,400	704	11	11,300	1,243	11	11,100	1,221	11
Bureau of Labor Statistics	6,400	704	11	11,300	1,243	11	11,100	1,221	11
Department of Transportation, total	8,752	3,559	41	6,268	3,273	52	17,140	3,388	20
Federal Highway Administration	5,944	1,421	24	3,550	1,505	42	12,872	1,590	12
Office of the Secretary	2,808	2,138	76	2,718	1,768	65	4,268	1,798	42
Department of the Treasury, total	45	19	42	24	3	13	23	3	13
Bureau of Engraving & Printing	45	19	42	24	3	13	23	3	13
Department of Veterans Affairs	12,483	8,239	66	13,454	8,880	66	11,713	7,731	66

See explanatory information, if any, and SOURCE at end of table.

Table C-89. Federal obligations for total basic research to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 2 of 2

Agency and subdivision	1996			Preliminary					
	Total	Personnel costs	Percent of total	1997			1998		
				Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Other agencies:									
Environmental Protection Agency	26,368	21,094	80	26,929	21,543	80	27,490	21,992	80
Internat'l Development Cooperation Agency, total	900	600	67	500	380	76	770	530	69
Agency for Internat'l Dvlpmt[11]	900	600	67	500	380	76	770	530	69
Library of Congress	518	518	100	502	502	100	511	510	100
National Aeronautics & Space Admin	511,334	240,533	47	489,829	256,789	52	464,427	248,411	53
National Science Foundation	19,027	13,313	70	17,361	12,158	70	17,123	11,981	70
Smithsonian Institution	127,000	82,550	65	129,000	83,850	65	132,000	85,800	65
Tennessee Valley Authority	326	203	62	850	517	61	150	94	63

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[6] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[7] Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 1 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Per-cent of total	Total	Personnel costs	Per-cent of total	Total	Personnel costs	Per-cent of total
Total, all agencies	4,839,023	2,801,680	58	5,131,417	2,919,916	57	5,299,744	3,040,437	57
Departments:									
Department of Agriculture, total	439,249	281,625	64	453,320	291,290	64	460,449	297,653	65
Agricultural Marketing Service	3,780	1,264	33	4,191	1,418	34	4,161	1,440	35
Agricultural Research Service [1]	242,644	136,778	56	247,563	145,716	59	252,326	149,251	59
Cooperative State Research, Education, & Extension Service [2]	8,704	7,635	88	10,895	8,177	75	11,625	8,228	71
Economic Research Service	44,937	33,295	74	47,799	34,263	72	48,879	34,979	72
Food Safety Inspection Service	1,645	1,168	71	2,700	1,917	71	3,200	2,272	71
Foreign Agricultural Service [3]	214	214	100	230	230	100	230	230	100
Forest Service	133,055	97,600	73	135,780	96,000	71	135,780	97,600	72
Grain Inspection Packers & Stockyards Administration [4]	507	405	80	550	440	80	557	445	80
Nat'l Agricultural Statistics Svc	2,412	1,915	79	2,444	1,961	80	2,475	1,992	80
Rural Business-Cooperative Svc [5]	1,351	1,351	100	1,168	1,168	100	1,216	1,216	100
Department of Commerce, total	576,536	395,135	69	610,567	379,631	62	613,975	387,912	63
Bureau of the Census	1,600	837	52	2,240	1,562	70	2,240	1,562	70
Economic Development Admin	50	50	100	50	50	100	50	50	100
National Inst of Standards & Tech	163,902	102,771	63	172,572	111,954	65	169,991	116,287	68
Nat'l Oceanic & Atmospheric Admin	406,325	286,818	71	425,167	255,527	60	428,064	256,383	60
National Telecommunications & Information Administration	4,658	4,658	100	10,537	10,537	100	13,629	13,629	100
Office of the Secretary	1	1	100	1	1	100	1	1	100
Department of Defense, total	1,032,765	568,541	55	1,123,389	605,363	54	1,002,897	604,006	60
Department of the Army	286,988	204,204	71	334,455	236,017	71	316,032	229,713	73
Department of the Navy	236,700	137,215	58	259,186	150,250	58	246,473	142,880	58
Department of the Air Force	351,832	179,666	51	359,576	177,850	49	285,617	183,195	64
Defense Agencies, total	157,245	47,456	30	170,172	41,246	24	154,775	48,218	31
Ballistic Missile Defense Organization	13,681	2,732	20	62,925	2,596	4	22,148	3,506	16
Defense Advanced Research Projects Agency [6]	55,042	41,281	75	46,970	35,227	75	54,879	41,159	75
Defense Information Systems Agency	1,648	1	*	1,508	1	*	1,913	1	*
Defense Logistics Agency	7,950	1	*	7,053	1	*	8,285	1	*
Defense Special Weapons Agency [7]	52,600	526	1	35,660	350	1	52,016	518	1
Special Operations Command	14,658	413	3	9,889	279	3	8,609	242	3
Washington Headquarters Services [8] [9]	11,666	2,502	21	6,167	2,792	45	6,925	2,791	40
Department of Education	6,436	4,403	68	6,379	4,492	70	7,152	4,962	69
Department of Energy	168,297	30,335	18	156,834	28,025	18	262,121	27,005	10
Dept of Health & Human Svcs, total	1,084,867	620,723	57	1,195,742	653,678	55	1,291,830	708,804	55
Administration on Aging	171	115	67	85	57	67	85	57	67
Admin for Children & Families	872	307	35	716	516	72	763	763	100
Agcy for Hlth Care Policy & Rsch	24,382	9,915	41	37,237	10,532	28	41,616	13,417	32
Centers for Disease Control & Prevention	240,847	204,720	85	287,104	244,039	85	298,553	253,770	85
Food & Drug Administration	151,879	136,691	90	151,322	136,190	90	152,152	136,937	90
Health Care Financing Admin	50	10	20	58	10	17	50	10	20
Health Resources & Services Admin	1,490	1,365	92	1,505	1,376	91	520	387	74
National Institutes of Health [10]	661,225	266,070	40	704,515	259,216	37	794,377	300,463	38
Office of the Secretary, total	3,951	1,530	39	13,200	1,742	13	3,714	3,000	81
Office of the Asst Secretary, Planning & Evaluation	3,951	1,530	39	13,200	1,742	13	3,714	3,000	81

See explanatory information, if any, and SOURCE at end of table.

Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 2 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Dept of Housing & Urban Dvlpmt	8,749	7,000	80	6,812	5,400	79	8,320	6,600	79
Department of the Interior, total	423,987	228,366	54	427,557	230,265	54	435,810	240,125	55
Bureau of Reclamation	3,903	2,338	60	4,585	2,746	60	4,710	2,821	60
Geological Survey[11]	405,279	213,987	53	407,486	214,745	53	415,148	224,180	54
Minerals Management Service	5,259	3,625	69	5,498	3,966	72	5,791	4,155	72
National Park Service[12]	9,546	8,416	88	9,988	8,808	88	10,161	8,969	88
Department of Justice, total	3,048	1,862	61	3,490	1,770	51	2,500	1,800	72
Bureau of Prisons	1,850	1,600	86	1,900	1,500	79	1,900	1,500	79
Drug Enforcement Administration	45	45	100	50	50	100	60	60	100
Immigration & Naturalization Svc	40	40	100	40	40	100	40	40	100
Office of Justice Programs	1,113	177	16	1,500	180	12	500	200	40
Department of Labor, total	6,083	5,051	83	5,254	4,745	90	5,264	4,752	90
Bureau of Labor Statistics	1,800	1,440	80	1,300	960	74	1,300	960	74
Employment & Training Admin	1,052	380	36	563	394	70	577	405	70
Occupational Safety & Hlth Admin	1,298	1,298	100	1,336	1,336	100	1,385	1,385	100
Office of the Secretary	1,026	1,026	100	1,126	1,126	100	1,050	1,050	100
Pension Benefit Guaranty Corp	53	53	100	54	54	100	55	55	100
Pension & Welfare Benefits Admin	854	854	100	875	875	100	897	897	100
Department of State, total	253	253	100	333	333	100	333	333	100
Department of Transportation, total	103,197	64,520	63	108,421	64,803	60	124,159	68,640	55
Coast Guard	3,410	2,001	59	4,253	2,466	58	3,353	1,964	59
Federal Aviation Administration	48,133	48,133	100	46,455	46,455	100	48,512	48,512	100
Federal Highway Administration	21,108	5,212	25	25,068	5,517	22	35,960	5,828	16
Federal Railroad Administration	10,013	1,695	17	8,591	2,100	24	9,468	2,200	23
Federal Transit Administration	1,420	863	61	882	882	100	2,138	1,837	86
National Highway Traffic Safety Administration	16,295	5,378	33	18,221	6,013	33	21,400	7,062	33
Research & Special Programs Admin	2,818	1,238	44	4,951	1,370	28	3,328	1,237	37
Department of the Treasury, total	32,197	30,001	93	33,869	31,317	92	34,141	31,407	92
Bureau of Engraving & Printing	1,393	152	11	1,476	155	11	1,688	181	11
Internal Revenue Service	29,962	29,142	97	31,533	30,453	97	31,533	30,453	97
Office of Thrift Supervision	537	402	75	574	423	74	583	436	75
United States Customs Service	55	55	100	50	50	100	60	60	100
United States Secret Service[13]	250	250	100	236	236	100	277	277	100
Department of Veterans Affairs	222,010	146,527	66	239,285	157,928	66	208,319	137,490	66
Other agencies:									
Appalachian Regional Commission	100	100	100	100	100	100	100	100	100
Consumer Product Safety Commission	0	0	0	0	0	0	6	6	100
Environmental Protection Agency	167,853	134,282	80	184,633	147,707	80	205,647	164,518	80
Federal Communications Commission	2,801	2,801	100	3,378	3,378	100	3,198	3,198	100
Federal Trade Commission	505	71	14	505	70	14	509	74	15
Internat'l Development Cooperation Agency, total	30,000	23,000	77	17,000	13,000	76	22,800	17,000	75
Agency for Internat'l Dvlpmt[14]	30,000	23,000	77	17,000	13,000	76	22,800	17,000	75
Library of Congress	1,647	1,647	100	1,557	1,557	100	1,749	1,671	96
National Aeronautics & Space Admin	503,024	236,624	47	523,627	274,508	52	579,743	310,091	53
National Archives & Records Admin	120	120	100	120	120	100	120	120	100
National Science Foundation	950	671	71	787	546	69	800	565	71
Nuclear Regulatory Commission	14,165	10,777	76	13,044	10,343	79	13,536	10,629	79
Social Security Administration[15]	1,852	1,852	100	1,379	1,379	100	5,055	5,055	100
Tennessee Valley Authority	4,796	2,091	44	7,580	3,185	42	2,700	1,158	43

See explanatory information, if any, and SOURCE at end of table.

Table C-90. Federal obligations for total applied research to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 3 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
US Arms Control & Disarmament Agcy ...	199	109	55	525	200	38	431	164	38
United States Information Agency	149	5	3	136	5	4	100	5	5
US Internat'l Trade Commission	3,188	3,188	100	5,794	4,778	82	5,980	4,594	77

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[5] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[6] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[7] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[8] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[9] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[15] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Increases in personnel costs are due to more complete reporting according to the National Science Foundation's definition of R&D, and not to actual increases in personnel costs.

Because of rounding, detail may not add to totals.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 1 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Total, all agencies	9,068,148	3,674,490	41	9,550,511	3,953,453	41	8,789,139	3,292,132	37
Departments:									
Department of Agriculture, total	76,946	46,062	60	85,390	53,689	63	85,674	53,979	63
Agricultural Marketing Service	628	188	30	618	211	34	612	214	35
Agricultural Research Service[1]	51,083	28,795	56	58,634	34,512	59	59,762	35,349	59
Animal & Plant Hlth Inspection Svc	17,605	11,795	67	18,636	13,604	73	17,774	12,975	73
Forest Service	5,600	3,660	65	5,300	3,600	68	5,300	3,660	69
Grain Inspection Packers & Stockyards Administration[2]	2,030	1,624	80	2,202	1,762	80	2,226	1,781	80
Department of Commerce, total	66,116	42,214	64	67,996	46,009	68	55,729	39,684	71
Bureau of the Census	3,808	1,578	41	1,636	916	56	1,636	916	56
National Inst of Standards & Tech	17,132	11,411	67	18,124	12,759	70	17,847	13,248	74
Nat'l Oceanic & Atmospheric Admin	45,175	29,224	65	44,786	28,884	64	31,071	20,345	65
National Telecommunications & Information Administration	1	1	100	3,450	3,450	100	5,175	5,175	100
Department of Defense, total[3]	6,820,505	2,676,952	39	7,262,100	2,875,217	40	6,372,033	2,166,235	34
Department of the Army	1,864,332	1,045,868	56	2,114,843	1,178,780	56	1,561,425	504,520	32
Department of the Navy	2,464,835	1,022,089	41	2,722,276	1,129,073	41	2,604,898	1,085,056	42
Department of the Air Force	770,754	115,734	15	714,511	140,599	20	638,426	127,700	20
Defense Agencies, total	1,491,429	490,493	33	1,487,918	424,325	29	1,318,232	446,206	34
Ballistic Missile Defense Organization	437,254	103,424	24	577,211	108,438	19	460,131	106,042	23
Defense Advanced Research Projects Agency[4]	332,895	241,009	72	271,246	194,703	72	270,883	193,397	71
Defense Information Systems Agency	18,973	9,582	51	13,349	9,630	72	14,191	9,939	70
Defense Logistics Agency	3,702	2,196	59	4,430	2,565	58	5,141	2,300	45
Defense Special Weapons Agcy[5]	9,248	924	10	6,347	634	10	1,774	177	10
Joint Staff	5,526	1	*	35,836	1	*	67,189	30	*
Special Operations Command	37,373	4,284	11	32,191	3,604	11	29,955	3,354	11
Washington Headquarters Services[6] [7]	646,458	129,073	20	547,308	104,750	19	468,968	130,967	28
Operational Test & Evaluation, Director	8,800	564	6	12,025	335	3	7,721	340	4
Test & Evaluation, Deputy Under Secretary of Defense	220,355	2,204	1	210,527	2,105	1	241,331	2,413	1
Department of Defense, total advanced technology (at)[3]	1,199,230	573,280	48	1,263,696	566,287	45	926,823	450,752	49
Department of the Army (at)	299,125	194,396	65	382,797	226,155	59	146,745	83,964	57
Department of the Navy (at)	168,041	61,738	37	201,761	74,127	37	160,164	58,844	37
Department of the Air Force (at)	136,472	35,357	26	101,979	37,532	37	76,895	53,441	69
Defense Agencies, total (at)	595,592	281,789	47	577,159	228,473	40	543,019	254,503	47
Ballistic Missile Defense Organization (at)	84,816	23,642	28	108,918	16,941	16	83,098	22,581	27
Defense Advanced Research Projects Agency (at)[4]	296,596	222,447	75	232,629	174,471	75	227,379	170,534	75
Defense Logistics Agency (at)	1,606	100	6	1,965	100	5	2,349	100	4
Defense Special Weapons Agency (at)[5]	9,248	924	10	6,347	634	10	1,774	177	10
Joint Staff (at)	5,526	1	*	35,836	1	*	67,189	30	*
Special Operations Command (at)	15,696	1,799	11	13,953	1,513	11	12,984	1,408	11
Washington Headquarters Services (at)[6] [7]	182,104	32,876	18	177,511	34,813	20	148,246	59,673	40

See explanatory information, if any, and SOURCE at end of table.

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

Page 2 of 3

Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Defense, total major systems (ms)[3]	5,621,275	2,103,672	37	5,998,404	2,308,930	38	5,445,210	1,715,483	32
Department of the Army (ms)	1,565,207	851,472	54	1,732,046	952,625	55	1,414,680	420,556	30
Department of the Navy (ms)	2,296,794	960,351	42	2,520,515	1,054,946	42	2,444,734	1,026,212	42
Department of the Air Force (ms)	634,282	80,377	13	612,532	103,067	17	561,531	74,259	13
Defense Agencies, total (ms)	895,837	208,704	23	910,759	195,852	22	775,213	191,703	25
Ballistic Missile Defense Organization (ms)	352,438	79,782	23	468,293	91,497	20	377,033	83,461	22
Defense Advanced Research Projects Agency (ms)[4]	36,299	18,562	51	38,617	20,232	52	43,504	22,863	53
Defense Information Systems Agency (ms)	18,973	9,582	51	13,349	9,630	72	14,191	9,939	70
Defense Logistics Agency (ms)	2,096	2,096	100	2,465	2,465	100	2,792	2,200	79
Special Operations Command (ms)	21,677	2,485	11	18,238	2,091	11	16,971	1,946	11
Washington Headquarters Services (ms)[6 7]	464,354	96,197	21	369,797	69,937	19	320,722	71,294	22
Operational Test & Evaluation, Director (ms)	8,800	564	6	12,025	335	3	7,721	340	4
Test & Evaluation, Deputy Under Secretary of Defense (ms)	220,355	2,204	1	210,527	2,105	1	241,331	2,413	1
Department of Education	2,247	1,598	71	2,279	1,656	73	2,279	1,640	72
Department of Energy	271,395	72,683	27	265,965	67,122	25	301,787	69,121	23
Dept of Health & Human Svcs, total	347,718	119,914	34	369,924	117,234	32	430,461	134,301	31
Administration on Aging	683	462	68	341	231	68	341	231	68
Agcy for Hlth Care Policy & Rsch	9,162	9,162	100	9,668	9,668	100	9,762	9,762	100
National Institutes of Health[8]	336,875	109,980	33	358,930	107,148	30	419,441	124,197	30
Office of the Secretary, total	309	309	100	186	186	100	110	110	100
Off of Public Health & Science	309	309	100	186	186	100	110	110	100
Substance Abuse & Mental Health Services Administration	689	1	*	799	1	*	807	1	*
Dept of Housing & Urban Dvlpmt	11,749	9,300	79	13,647	10,900	80	16,510	13,200	80
Department of the Interior, total	23,088	11,737	51	24,837	12,561	51	25,374	13,133	52
Bureau of Reclamation	1,630	408	25	1,910	478	25	1,962	491	25
Geological Survey[9]	21,458	11,329	53	22,927	12,083	53	23,412	12,642	54
Department of Justice, total	34,364	3,940	11	37,330	4,079	11	36,967	4,212	11
Bureau of Prisons	450	350	78	500	400	80	500	400	80
Drug Enforcement Administration	455	100	22	50	50	100	50	50	100
Federal Bureau of Investigation	33,458	3,489	10	35,880	3,525	10	35,917	3,562	10
Office of Justice Programs	1	1	100	900	104	12	500	200	40
Department of Labor, total	951	951	100	1,211	1,211	100	1,781	1,781	100
Employment & Training Admin	761	761	100	787	787	100	810	810	100
Office of the Secretary	5	5	100	235	235	100	778	778	100
Pension Benefit Guaranty Corp	185	185	100	189	189	100	193	193	100

See explanatory information, if any, and SOURCE at end of table.

Table C-91. Federal obligations for total development to intramural performers for personnel costs, by agency: fiscal years 1996, 1997, and 1998

[In thousands of dollars and percentages]

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Agency and subdivision	1996			Preliminary					
				1997			1998		
	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total	Total	Personnel costs	Percent of total
Department of Transportation, total	44,056	25,753	58	49,620	30,026	61	61,094	29,310	48
Coast Guard	10,798	4,313	40	13,469	5,052	38	10,616	4,034	38
Federal Aviation Administration	16,339	16,339	100	20,223	20,223	100	21,089	21,089	100
Federal Highway Administration	11,109	2,843	26	12,732	3,009	24	27,280	3,179	12
Federal Railroad Administration	2,931	478	16	350	81	23	350	83	24
Federal Transit Administration	1,811	1,311	72	1,641	1,328	81	432	432	100
Research & Special Programs Admin	1,068	469	44	1,205	333	28	1,327	493	37
Department of the Treasury, total	5,107	4,992	98	5,073	4,983	98	5,069	4,946	98
Bureau of Engraving & Printing	107	63	59	56	6	11	89	6	7
Internal Revenue Service	2,200	2,129	97	2,180	2,140	98	2,180	2,140	98
United States Customs Service	2,800	2,800	100	2,800	2,800	100	2,800	2,800	100
United States Mint	0	0	0	37	37	100	0	0	0
Department of Veterans Affairs	19,862	12,109	61	21,409	14,130	66	18,637	12,300	66
Other agencies:									
Consumer Product Safety Commission	30	30	100	0	0	0	0	0	0
Environmental Protection Agency	42,588	34,070	80	45,495	36,396	80	49,371	39,497	80
Internat'l Development Cooperation Agency, total	2,400	1,500	63	1,200	1,100	92	2,000	1,500	75
Agency for Internat'l Dvlpmt[10]	2,400	1,500	63	1,200	1,100	92	2,000	1,500	75
Library of Congress	8,414	8,414	100	7,855	7,855	100	9,394	8,846	94
National Aeronautics & Space Admin	1,243,167	583,556	47	1,234,942	647,409	52	1,273,829	681,343	53
Tennessee Valley Authority	47,445	18,715	39	54,238	21,876	40	41,150	17,104	42

[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[3] Not all Department of Defense (DoD) agencies with development obligations are able to categorize these obligations according to the advanced technology and major systems development breakdown. Therefore, total DoD development does not equal the sum of total DoD advanced technology development and total DoD major systems development.

[4] This agency's name changed to the Advanced Research Projects Agency on July 13, 1993, and it was changed back to Defense Advanced Research Projects Agency in February 1996.

[5] The Defense Nuclear Agency was renamed the Defense Special Weapons Agency in 1996, as a result of a new charter and an expanded mission.

[6] Data for the Uniformed Services University of the Health Sciences are included with the Washington Headquarters Services' submission as of Vol. 45.

[7] Public Law No. 103-160, Section 1703 makes the Office of the Secretary of Defense responsible for the Chemical and Biological Defense Program (CBDP). Section 1701 requires the creation of CBDP research, development, test, and evaluation program elements established in the fiscal year 1996-1997 President's Budget. Data for these new program elements are included in the Federal funds survey as of Vol. 46.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[10] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY: * = Percentage less than .05%

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	22,882.9	25,127.9	27,041.0	30,635.8	34,065.9	35,766.8	37,959.4	41,330.1	45,860.3	52,090.3	53,214.2
Departments:											
Dept of Agriculture, total	537.8	572.4	630.5	687.6	782.5	828.4	858.8	893.5	923.2	953.0	994.0
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.3	1.7	2.1	2.2	2.9	2.6	2.8
Agricultural Marketing Svc[1]	.0	.0	.9	1.3	1.2	1.5	.6	1.7	1.3	1.7	1.4
Agricultural Research Svc	NA	NA	NA	NA	425.9	436.1	469.4	479.3	492.9	500.5	526.5
Animal & Plant Health Inspection Service	.0	0	0	0	.0	0	0	.0	0	4.2	4.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	199.0	219.8	220.4	239.5	243.6	256.5	274.1
Economic Research Service	NA	NA	NA	NA	38.0	37.0	36.8	40.9	45.1	46.0	43.2
Economics, Statistics, & Cooperative Service[2]	30.5	32.4	35.6	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	31.1	NA	NA	NA	NA	NA	NA	NA
Forest Service	92.5	86.7	105.7	100.6	101.8	116.0	111.1	109.2	113.8	113.5	120.7
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	1.2
Human Nutrition Information Service	NA	NA	NA	NA	.0	3.8	5.8	7.9	7.2	10.6	9.6
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.5
Office of International Cooperation & Development	NA	NA	.0	6.4	6.9	4.6	4.1	3.6	5.8	7.5	5.1
Office of Transportation	NA	NA	.5	.8	.9	.9	.8	1.0	1.3	1.0	1.0
Science & Ed Admin, total	414.7	453.3	487.8	545.8	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	294.6	318.4	331.2	371.6	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	120.2	134.9	156.6	174.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	238.2	272.7	307.1	360.6	346.8	286.5	335.2	336.3	377.8	380.1	311.1
Bureau of the Census	2.5	3.3	2.7	3.2	3.8	3.7	4.3	4.4	4.8	4.6	4.5
Economic Development Admin	20.0	25.1	26.7	35.5	35.5	12.1	5.3	5.1	7.8	7.8	7.2
Maritime Administration[4]	18.8	18.8	18.7	24.1	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	1.6	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[5]	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	53.1	59.0	64.8	77.1	84.4	87.6	94.0	103.3	106.5	109.2	102.1
National Oceanic & Atmospheric Administration	132.6	164.7	190.1	210.6	209.0	174.1	222.0	214.7	249.1	248.7	189.2
National Telecommunications & Information Administration	2.5	1.3	3.3	9.1	12.9	8.0	9.6	8.6	9.0	8.5	7.8
Office of the Secretary	.0	.0	.3	.6	.1	.2	-	.1	.6	1.2	.3
Patent & Trademark Office	.5	.5	.5	.5	1.1	.7	.0	.0	.0	.0	.0
Department of Defense, total	10,308.0	10,935.4	11,733.1	13,706.1	15,993.0	18,482.9	21,373.5	22,999.4	27,143.7	32,491.1	33,611.8
Department of the Army	2,195.0	2,464.3	2,536.2	2,852.9	3,123.7	3,414.4	3,848.5	4,017.4	4,230.0	4,278.5	5,009.7
Department of the Navy	3,582.6	3,919.4	3,926.4	4,507.9	4,916.9	5,394.7	6,023.5	6,859.8	8,304.9	9,939.8	9,422.1
Department of the Air Force	3,902.2	3,969.9	4,428.0	5,323.6	6,756.6	8,209.1	9,640.9	10,849.7	12,263.7	14,133.1	14,101.0
Defense Agencies, total	610.5	555.1	814.2	981.4	1,160.0	1,420.0	1,817.3	1,217.8	2,290.0	4,068.2	4,995.8
Defense Civil Preparedness Agency[6]	1.2	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	NA	NA	.0	4.4
Test & Evaluation, Deputy Under Secretary of Defense	16.5	23.9	28.3	40.4	35.7	44.8	43.3	54.7	55.1	71.6	78.8

See explanatory information, if any, and SOURCE at end of table.

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Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	136.5	120.9	.0	150.1	111.5	181.3	95.7	125.3	138.3
Department of Energy[7][8]	3,593.1	4,413.0	4,956.8	5,660.2	6,125.9	5,785.4	5,641.9	5,656.4	5,803.0	5,381.7	5,432.7
Department of Health, Education, & Welfare, total	2,622.2	3,070.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	167.2	179.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	42.6	58.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	28.6	56.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	14.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	1.4	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	15.6	15.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	59.7	74.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	2,105.0	2,507.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.7	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	28.1	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	30.3	25.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	80.0	75.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	21.3	30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	10.9	11.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	3,172.7	3,554.1	3,997.5	4,052.1	4,118.6	4,484.9	5,049.6	5,531.4	5,751.0
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	184.7	218.1	251.1	292.0	289.8	276.1	349.8	396.6	476.1
Centers for Disease Control & Prevention	NA	NA	72.4	72.6	83.0	88.4	80.4	46.3	47.6	52.7	66.2
Food & Drug Administration	NA	NA	40.6	61.0	57.6	59.4	75.6	86.9	96.2	89.1	85.6
Health Care Financing Admin	NA	NA	19.5	29.4	35.4	29.1	30.2	33.1	33.5	28.1	36.1
Health Resources Admin	NA	NA	3.2	2.8	3.7	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	17.5	16.3	13.4	16.0	13.0	9.2
Health Services Admin	NA	NA	23.1	20.2	16.9	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	57.1	48.5	85.5	33.0	22.3	15.4	21.4	52.0	51.1
National Insts of Health	NA	NA	2,713.4	3,029.3	3,392.2	3,475.0	3,562.9	3,981.1	4,446.3	4,867.2	4,985.2
Office of the Assistant Secretary for Health	NA	NA	14.7	27.0	37.2	29.0	16.9	11.5	15.8	21.6	23.5
Office of the Secretary	NA	NA	26.5	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2
Social Security Admin	NA	NA	17.4	21.4	15.4	15.4	9.6	10.7	13.3	5.0	9.8
Dept of Housing & Urban Dvlpmt	69.0	59.3	74.3	65.8	54.1	37.0	30.9	24.9	18.6	13.9	19.7
Dept of the Interior, total	304.0	339.9	404.3	431.5	436.9	394.9	412.7	435.9	417.0	445.4	394.7
Bonneville Power Admin[8]	.0	.0	.0	.0	14.0	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.9	1.2	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.6
Bureau of Mines	103.7	104.2	121.4	130.8	109.0	105.2	102.0	111.4	100.4	131.0	91.2
Bureau of Reclamation	10.1	10.9	11.0	13.1	13.4	10.7	11.1	10.1	10.5	12.0	10.6
Geological Survey[9]	112.2	128.7	144.2	145.2	168.2	150.1	171.4	228.4	230.8	226.5	211.2
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.3	1.5	1.5	1.1	1.0
National Park Service	7.6	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	1.0	2.1	1.5	1.9	2.0	.4	1.3	.6	.3	.6	2.0
Office of Surface Mining Reclamation & Enforcement	.0	.0	5.0	7.8	5.8	1.4	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	14.2	17.6	23.8	30.0	21.8	20.3	8.3	2.6	NA	NA	NA
US Fish & Wildlife Svc	54.2	67.5	87.3	93.0	90.5	90.4	98.3	62.8	52.1	51.2	55.7
Department of Justice, total	33.7	33.5	45.9	45.3	26.1	36.6	27.6	26.5	32.7	32.1	39.0
Bureau of Prisons	1.0	1.8	3.3	2.1	2.5	1.7	1.7	1.6	1.5	3.0	6.9
Drug Enforcement Admin	3.8	1.7	2.7	4.4	1.2	2.7	2.5	2.0	1.6	2.5	2.2
Federal Bureau of Investigation	1.1	.9	2.5	1.8	1.5	1.1	1.9	2.5	8.9	6.9	6.9
Immigration & Naturalization Service	.2	.3	.3	.3	1.0	.3	.2	.6	.4	.4	.4
Office of Justice Programs	27.6	27.1	35.5	35.1	19.2	30.4	21.1	19.6	20.1	19.2	22.4
Office of Legal Policy	.0	1.6	1.6	1.6	.7	.4	.2	.3	.2	.2	.2

See explanatory information, if any, and SOURCE at end of table.

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	28.1	97.6	109.2	137.7	61.6	29.4	16.8	14.1	13.7	10.9	20.3
Bureau of Labor Statistics	1.4	1.2	.9	.9	.3	.3	.7	5	.6	6	6.5
Employment Standards Admin	4.3	3.6	5.1	4.7	3.0	1.3	1.3	1.3	-	.0	1.0
Employment & Training Admin	16.8	86.6	93.0	121.7	52.1	20.2	6.0	3.5	4.5	3.4	4.4
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	3	.3	2	.3
Labor-Management Services Administration[10]	1.9	2.7	3.5	2.8	1.7	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.3	1.0	.9	1.5	1.9	2.6	2.1	2.7
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.5	1.1	1.1	.3	.2	1	3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.1	.9	1.0
Department of State, total[11]	44.1	57.5	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0
Agcy for Internat'l Dvlpmt[11]	41.8	54.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.3	2.8	3.2	2.2	1.8	.0	.0	0	.0	.0	.0
Dept of Transportation, total	363.5	377.3	372.4	391.0	432.1	360.0	282.3	357.5	430.2	445.2	347.7
Coast Guard	17.0	20.3	20.5	17.9	25.9	20.0	19.6	19.5	19.0	16.7	17.8
Federal Aviation Admin	102.8	100.2	111.4	109.7	125.9	110.9	99.5	167.5	283.7	317.6	190.5
Federal Highway Admin	53.0	52.9	48.9	53.4	59.1	42.5	32.5	51.1	47.5	46.1	76.3
Federal Railroad Admin	57.3	62.4	58.0	63.5	55.0	25.6	18.5	14.7	16.2	15.4	10.9
Federal Transit Admin	52.1	52.5	50.5	58.9	61.9	69.8	36.5	31.2	18.6	8.8	9.4
Maritime Administration[4]	NA	NA	NA	NA	17.4	18.9	13.5	11.1	10.2	14.1	7.2
National Highway Traffic Safety Administration	49.5	68.5	53.6	60.3	60.8	60.2	51.1	53.2	28.0	19.1	28.9
Office of the Secretary	31.8	19.7	16.7	14.9	13.9	5.6	4.0	5.0	4.7	5.2	4.7
Rsch & Special Programs Administration	.0	.8	12.8	12.4	12.3	6.5	7.1	4.2	2.4	2.3	2.1
Dept of the Treasury, total	5.0	9.9	9.6	10.9	10.8	13.6	15.6	13.6	24.3	23.0	26.4
Bureau of Alcohol, Tobacco, & Firearms	1.1	2.0	2.5	1.6	.3	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.5	3.7	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5
Internal Revenue Service	.0	2.4	3.6	4.0	4.2	5.4	8.0	7.9	15.9	13.4	14.1
United States Customs Svc	1.4	1.8	1.4	3.0	3.5	3.2	3.4	1.9	2.3	4.9	7.1
United States Mint	.0	.0	.0	0	0	0	0	0	6	-	1
United States Secret Service	NA	NA	NA	-	1	3	4	2	6	5	5
Department of Veterans Affairs	112.8	123.9	123.1	138.6	144.3	140.7	164.7	193.6	222.7	185.1	198.8
Other agencies:											
ACTION	.4	1.6	1.6	.0	.0	0	0	0	0	.0	0
Advisory Commission on Intergovernmental Relations	1.3	1.5	1.7	1.7	1.9	1.8	1.9	2.1	2.0	2.0	1.6
Appalachian Regional Comm	.6	.5	.9	.8	.4	.4	.2	.4	.2	.2	.1
Civil Service Commission	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	21.0	24.1	19.5	25.5	26.2	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	6.8	4.2	5.8	6.3	.9	.2	.5	1.2	2.2	2.0	2.1
Environmental Protection Agcy	283.0	312.5	388.9	384.7	344.3	336.2	312.5	266.1	274.8	306.9	325.9
Federal Communications Comm	1.9	2.4	1.9	3.1	1.6	1.2	1.3	.9	1.1	.9	1.0
Federal Emergency Management Agency, total[6, 5]	NA	6.8	12.0	11.2	11.6	8.8	3.2	10.9	4.6	0	.0
National Fire Prevention & Control Administration[5]	NA	6.8	.0	.0	.0	.0	0	.0	.0	0	.0
Federal Trade Commission	1.1	1.4	1.5	3.2	1.1	1.2	1.4	1.6	1.7	1.8	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	111.8	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.9	2.7	.5	.2	.6	1.0	.5	2.4	.4	1.9	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-92. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	80.3	114.3	166.1	188.6	225.2	207.2	233.0	255.5	263.2
Agcy for Internat'l Dvlpmt[11]	NA	NA	80.3	114.3	166.1	188.6	225.2	207.2	233.0	255.5	263.2
Interstate Commerce Comm	0.1	0.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
Library of Congress	3.6	4.7	5.4	6.5	5.1	5.4	6.7	7.2	6.3	6.9	6.5
National Aeronautics & Space Administration	3,449.1	3,432.1	3,395.2	3,605.7	3,705.5	3,252.9	2,646.2	3,730.6	3,217.1	3,730.6	3,564.3
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.0	1.1
National Science Foundation	674.7	738.6	804.6	848.2	905.0	1,015.1	994.7	1,151.0	1,250.0	1,468.1	1,459.9
Nuclear Regulatory Commission	107.8	131.7	145.4	182.8	216.0	208.6	244.0	198.6	161.1	136.0	124.4
Office of Personnel Management	NA	4.5	6.0	6.8	8.1	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	30.1	34.7	37.8	39.5	43.9	48.4	57.3	55.2	59.8	64.0	71.5
Tennessee Valley Authority	30.2	53.4	45.4	75.3	94.3	89.5	63.7	66.3	81.0	79.5	76.9
United States Arms Control & Disarmament Agency	2.2	3.6	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	4.6
US Information Agency[14]	.1	.1	.1	.1	1.2	-	-	-	1.1	2.4	10.0
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

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[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	56,556.6	61,476.4	64,151.1	63,676.4	65,719.0	68,385.8	68,328.3	68,405.0	67,756.1	70,023.0	69,499.9
Departments											
Dept of Agriculture, total	1,049.7	1,129.8	1,196.7	1,269.4	1,382.8	1,453.4	1,486.9	1,504.3	1,439.9	1,537.2	1,539.4
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.8	4.8
Agricultural Research Svc[2]	540.4	579.7	603.4	622.9	686.5	732.6	735.3	758.4	739.9	781.1	790.0
Animal & Plant Health Inspection Service	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.1	18.3
Cooperative State Rsch. Ed. & Extension Service[3]	294.8	336.9	361.9	395.6	415.1	433.2	456.9	463.9	434.9	485.2	477.8
Economic Research Service	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1	53.3	54.2
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4
Forest Service	138.0	136.4	144.5	159.8	182.0	185.8	195.7	197.8	180.4	181.8	181.8
Grain Inspection Packers & Stockyards Administration[5]	1.0	1.1	.6	.7	1.8	1.8	1.8	1.5	2.5	2.8	2.8
Human Nutrition Information Service[2]	8.2	8.4	9.0	8.9	9.7	7.3	5.3	NA	NA	NA	NA
National Agricultural Statistics Service	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.8	3.9
Office of International Cooperation & Dvlpmnt[4]	5.0	2.5	4.3	3.1	2.4	2.6	.0	NA	NA	NA	NA
Office of Transportation	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	389.4	403.2	441.5	500.7	643.4	652.0	810.3	886.4	945.1	1,022.1	1,016.8
Bureau of the Census	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	5.1
Economic Development Admin	2.7	1.3	1.5	1.0	1.1	.7	.3	1.0	.6	.6	.6
National Institute of Standards & Technology	111.4	121.5	120.3	144.1	160.6	189.8	237.8	350.4	404.9	463.1	473.9
National Oceanic & Atmospheric Administration	263.5	269.1	306.7	345.3	472.2	452.4	562.9	523.6	528.5	543.7	524.7
National Telecommunications & Information Administration	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5	9.6	12.5
Office of the Secretary	.1	.1	-	-	-	-	-	-	0	.0	0
Department of Defense, total	34,573.0	36,869.1	37,140.0	33,447.2	34,631.7	34,525.9	35,179.2	33,712.5	35,202.1	34,463.8	32,487.0
Department of the Army	4,899.6	5,241.3	5,797.1	5,724.5	6,295.2	6,125.3	5,797.8	5,137.3	4,954.4	5,111.9	4,693.9
Department of the Navy	9,081.9	9,559.5	9,453.5	7,902.0	8,115.0	9,187.5	8,213.3	9,454.1	9,605.0	8,006.9	7,460.9
Department of the Air Force	14,774.5	15,390.5	14,888.1	13,043.8	12,532.3	12,287.9	12,799.2	12,051.8	13,474.4	13,862.1	13,754.3
Defense Agencies, total	5,690.3	6,501.3	6,853.6	6,685.3	7,450.3	6,689.7	8,125.3	6,822.7	6,899.1	7,183.2	6,286.4
Operational Test & Evaluation, Director	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1	23.8	23.4
Test & Evaluation, Deputy Under Secretary of Defense	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	268.2
Department of Education	142.9	155.7	150.7	117.2	135.5	186.7	179.2	180.6	172.0	180.6	201.7
Department of Energy	5,743.7	6,039.0	6,365.3	6,827.1	7,232.7	7,668.3	6,896.5	7,016.3	6,656.1	6,427.1	6,594.5

See explanatory information, if any, and SOURCE at end of table.

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	6,923.2	7,773.4	8,363.8	9,822.1	9,091.5	10,475.2	10,352.5	11,245.2	10,419.0	12,355.9	12,958.6
Administration on Aging[7]	NA	NA	NA	20.6	20.2	20.9	19.1	20.7	2.9	4.0	4.0
Administration for Children & Families[8, 7]	NA	NA	NA	110.2	35.1	19.3	11.3	12.0	11.9	14.2	18.7
Agency for Health Care Policy & Research[9]	NA	NA	5.3	11.9	113.5	87.6	111.0	133.0	80.0	95.0	88.0
Alcohol, Drug Abuse, & Mental Health Administration[10]	554.8	695.7	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	91.3	96.0	95.0	143.5	150.0	174.2	160.5	147.9	138.8	136.2	148.1
Health Care Financing Admin	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4	77.2	55.1
Hlth Resources & Svcs Admin	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.4	11.9	12.1	9.4
Human Development Svcs[7]	50.9	73.3	76.7	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	6,060.2	6,699.0	7,181.1	7,890.4	8,491.4	9,893.3	9,725.7	10,511.5	9,779.8	11,636.2	12,253.4
Office of the Assistant Secretary for Health[9]	20.0	26.0	22.3	18.2	21.7	15.8	.7	.6	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0	15.8	3.7
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	3.0	13.0	3.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	NA	NA	2.0	2.8	.7
Social Security Admin[11]	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	NA	NA	NA
Substance Abuse & Mental Health Services Admin	NA	NA	NA	NA	NA	NA	NA	NA	16.7	19.4	19.6
Dept of Housing & Urban Dvlpmt	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2	32.6	36.9
Dept of the Interior, total	419.6	485.3	503.0	556.2	628.4	651.8	644.9	558.8	547.2	596.0	599.7
Bureau of Land Management	3.7	3.0	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0
Bureau of Mines[12]	87.6	92.6	96.7	97.7	113.9	111.8	107.9	.0	NA	NA	NA
Bureau of Reclamation	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5	7.6	7.8
Geological Survey[13]	238.6	300.9	301.3	319.5	370.3	385.2	375.5	359.3	498.6	543.5	543.5
Minerals Management Service	1.2	1.9	2.0	2.7	4.1	6.1	19.5	20.8	21.7	21.6	22.5
National Biological Service[14, 13]	NA	NA	NA	NA	NA	.0	110.3	151.0	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	23.3	25.9
Office of the Secretary[15]	.4	.4	.2	.6	.9	.4	.1	-	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.8	1.0	.3	.4	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	63.3	62.2	73.3	89.7	89.3	91.3	.0	.0	.0	.0	.0
Department of Justice, total	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.6	80.4
Bureau of Prisons[16]	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.8	4.9
Drug Enforcement Admin	2.5	2.7	2.4	2.8	1.5	1.1	1.7	.4	1.2	.5	.5
Federal Bureau of Investigation	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.9	35.9
Immigration & Naturalization Service	5.2	.4	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6	34.1	38.7
Department of Labor, total	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1	45.7	41.2
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6	23.8	19.8
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6	3.9	4.0
Office of the Secretary	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6	2.3	1.9
Pension Benefit Guaranty Corp	.3	.3	.5	.5	.9	1.3	.7	1.4	.6	.7	.7
Pension & Welfare Benefits Administration	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	4.2	4.7	4.7	5.9	5.6	5.3	.4	.5	1.0	.9	.9

See explanatory information, if any, and SOURCE at end of table.

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Page 3 of 4

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	332.1	291.5	287.3	361.0	411.1	455.3	536.9	661.4	593.0	546.5	811.3
Coast Guard	14.9	18.1	21.4	14.9	22.8	32.2	26.1	21.1	23.4	26.7	20.9
Federal Aviation Admin	190.2	153.5	185.5	216.0	250.7	260.1	258.9	270.8	265.8	278.4	268.6
Federal Highway Admin	60.1	76.5	44.0	86.1	81.2	87.5	178.5	260.6	236.5	123.6	418.9
Federal Railroad Admin	10.6	7.0	7.0	14.3	21.5	22.8	19.6	22.8	20.0	37.3	26.7
Federal Transit Admin[18]	1.4	2.0	2.3	2.1	1.5	16.5	18.5	33.4	22.4	23.5	22.1
Maritime Administration[19]	2.6	.0	.9	1.5	1.7	1.7	1.7	2.3	.0	.0	.0
National Highway Traffic Safety Administration	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0	44.9	41.9
Office of the Secretary	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.7	4.3
Rsch & Special Programs Administration	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0	9.5	8.0
Dept of the Treasury, total	25.8	23.5	25.2	30.4	24.5	16.6	20.7	61.5	60.2	58.1	53.5
Bureau of Engraving & Printing	2.0	1.7	2.1	3.5	2.0	3.2	3.4	1.8	1.7	1.6	1.9
Financial Crimes Enforcement Network	.0	.0	.0	1.8	1.5	1.5	.0	.0	.0	.0	.0
Internal Revenue Svc[20 21]	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2	48.7	41.1
Off of Thrift Supervision[22]	NA	NA	.0	3.0	.8	.7	.5	.6	.5	.6	.6
United States Customs Svc	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	8.9
United States Mint	.2	.3	.1	.5	.0	-	.4	.3	.0	.3	.4
US Secret Service[23]	.4	.6	.5	.4	.6	.6	.5	.6	.5	.6	.6
Department of Veterans Affairs	201.9	186.4	219.0	221.6	207.6	250.8	246.0	258.3	240.6	269.8	251.5
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	.8	.4	.7	1.9	.9	.9	.9	.9	.9	.9
Consumer Product Safety Comm	1.2	1.3	1.2	1.3	1.2	1.2	.4	.4	.1	-	.2
Environmental Protection Agcy	340.0	343.2	388.5	400.1	411.9	497.7	558.3	495.5	476.3	493.8	526.0
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	.4	.4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	.7	3.6	20.9	7.6	5.5	1.3	4.1	2.5	.0
International Development Cooperation Agency, total	229.1	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	221.0	294.0
Agency for International Development[17 24]	229.1	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	221.0	294.0
Library of Congress	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0	10.2	11.0
National Aeronautics & Space Administration	4,230.4	5,506.1	6,762.2	7,675.0	8,386.6	8,885.4	8,576.8	9,116.2	8,094.0	8,974.0	9,305.0
Nat'l Archives & Records Admin	.7	.3	.4	.7	.7	.3	.3	.1	.1	.1	.1
National Science Foundation	1,550.7	1,613.4	1,563.0	1,687.1	1,813.6	1,841.7	1,983.6	1,977.0	2,212.0	2,413.0	2,413.0
Nuclear Regulatory Commission	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2	57.6	55.1
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	74.8	82.6	95.4	98.5	95.4	97.2	127.4	125.0	125.0	126.0	129.5
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table.

Table C-92a. Federal outlays for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	86.9	61.7	66.7	72.3	103.5	109.6	97.9	93.1	52.6	62.7	44.0
United States Arms Control & Disarmament Agency[25]	3.4	2.8	2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.0
US Information Agency	1.5	1.0	0	.2	.2	.2	.6	.3	.1	.1	.1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-93. Federal outlays for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	22,082.7	24,020.1	25,838.2	29,154.2	32,459.1	34,390.7	36,659.4	39,691.0	44,171.4	50,609.1	51,611.7
Departments:											
Dept of Agriculture, total	515.3	553.8	608.7	659.8	743.4	807.2	826.0	864.3	889.0	918.0	922.9
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.3	1.7	2.1	2.2	2.9	2.6	2.8
Agricultural Marketing Svc[1]	.0	.0	.9	1.3	1.2	1.5	.6	1.7	1.3	1.7	1.4
Agricultural Research Svc	NA	NA	NA	NA	390.1	417.5	438.7	454.3	466.2	468.1	463.2
Animal & Plant Health Inspection Service	0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	199.0	219.8	219.6	235.7	236.7	254.8	267.1
Economic Research Service	NA	NA	NA	NA	38.0	37.0	36.8	40.9	45.1	46.0	43.2
Economics, Statistics, & Cooperative Service[2]	30.5	32.4	35.6	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	31.1	NA	NA	NA	NA	NA	NA	NA
Forest Service	89.0	84.6	102.2	97.0	98.6	113.2	109.8	108.8	113.1	112.5	119.9
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	1.2
Human Nutrition Information Service	NA	NA	NA	NA	.0	3.8	5.8	7.9	7.2	10.6	9.6
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.5
Office of International Cooperation & Development	NA	NA	.0	6.4	6.9	4.6	4.1	3.6	5.8	7.5	5.1
Office of Transportation	NA	NA	.5	.8	.9	.9	.8	1.0	1.3	1.0	1.0
Science & Ed Admin, total	395.7	436.8	469.5	521.7	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	275.6	301.9	312.9	347.5	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	120.1	134.9	156.6	174.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	232.5	269.2	305.2	355.9	345.5	285.4	334.5	327.0	373.6	372.6	307.0
Bureau of the Census	2.5	3.3	2.7	3.2	3.8	3.7	4.3	4.4	4.8	4.6	4.5
Economic Development Admin	20.0	25.1	26.7	35.5	35.5	12.1	5.3	5.1	7.8	7.8	7.2
Maritime Administration[4]	15.1	18.5	18.2	23.5	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[5]	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	52.6	58.1	63.4	76.8	83.9	86.6	93.3	94.1	102.2	103.3	100.0
National Oceanic & Atmospheric Administration	131.2	162.5	190.1	206.7	208.1	174.1	222.0	214.7	249.1	247.2	187.1
National Telecommunications & Information Administration	2.5	1.3	3.3	9.1	12.9	8.0	9.6	8.6	9.0	8.5	7.8
Office of the Secretary	.0	.0	.3	.6	.1	.2	-	.1	.6	1.2	.3
Patent & Trademark Office	.5	.5	.5	.5	1.1	.7	.0	.0	.0	.0	.0
Department of Defense, total	10,182.4	10,622.8	11,497.3	13,501.4	15,754.5	18,251.2	21,105.8	22,619.3	26,742.0	32,210.5	33,254.4
Department of the Army	2,180.2	2,457.5	2,534.1	2,845.3	3,114.8	3,400.9	3,827.0	3,983.0	4,176.6	4,223.5	4,949.0
Department of the Navy	3,519.0	3,870.3	3,873.5	4,417.0	4,824.7	5,269.4	5,886.8	6,709.4	8,161.1	9,809.1	9,357.1
Department of the Air Force	3,862.2	3,719.8	4,263.1	5,220.6	6,626.6	8,141.4	9,537.2	10,658.5	12,063.9	14,044.0	13,906.8
Defense Agencies, total	603.3	548.5	798.3	978.2	1,152.6	1,394.8	1,811.5	1,213.6	2,285.2	4,062.4	4,958.4
Defense Civil Preparedness Agency[6]	1.2	2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	4.4
Test & Evaluation, Deputy Under Secretary of Defense	16.5	23.9	28.3	40.4	35.7	44.8	43.3	54.7	55.1	71.6	78.8

See explanatory information, if any, and SOURCE at end of table.

Table C-93. Federal outlays for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	136.5	120.9	.0	150.1	111.5	181.3	95.7	124.5	122.6
Department of Energy[7] [8]	3,166.0	3,931.7	4,303.3	4,697.5	5,041.4	4,842.1	4,817.5	4,740.3	4,947.7	4,655.8	4,711.3
Department of Health, Education, & Welfare, total	2,576.6	3,002.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	167.2	179.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	42.6	58.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	24.4	54.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	14.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	1.4	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	15.6	15.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	59.7	74.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	2,063.7	2,440.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.7	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	28.1	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	30.3	25.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	80.0	75.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	21.3	30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	10.9	11.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	3,099.3	3,477.2	3,954.9	4,015.3	4,092.0	4,450.3	5,007.0	5,498.7	5,719.5
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	184.4	217.9	250.9	291.7	288.8	272.0	348.4	396.1	475.5
Centers for Disease Control & Prevention	NA	NA	72.4	72.6	83.0	88.4	80.4	46.3	47.6	52.7	66.2
Food & Drug Administration	NA	NA	40.0	60.3	57.1	58.4	73.5	76.9	81.2	79.1	83.7
Health Care Financing Admin	NA	NA	19.5	29.4	35.4	29.1	30.2	33.1	33.5	28.1	36.1
Health Resources Admin	NA	NA	3.2	2.8	3.7	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	17.5	16.3	13.4	16.0	13.0	9.2
Health Services Admin	NA	NA	23.1	20.2	16.9	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	57.1	48.5	85.5	33.0	22.3	15.4	21.4	52.0	51.1
National Insts of Health	NA	NA	2,641.0	2,953.2	3,350.2	3,439.6	3,539.5	3,960.6	4,420.1	4,845.0	4,956.2
Office of the Assistant Secretary for Health	NA	NA	14.7	27.0	37.2	29.0	16.9	11.5	15.8	21.6	23.5
Office of the Secretary	NA	NA	26.5	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2
Social Security Admin	NA	NA	17.4	21.4	15.4	15.4	9.6	10.7	13.3	5.0	9.8
Dept of Housing & Urban Dvlpmt	69.0	59.3	74.3	65.8	54.1	37.0	30.9	24.9	18.6	13.9	19.7
Dept of the Interior, total	299.5	332.3	395.3	422.7	432.8	393.6	410.3	430.7	412.8	439.3	390.0
Bonneville Power Admin[8]	.0	.0	.0	.0	13.7	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.9	1.2	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.6
Bureau of Mines	100.7	104.1	117.1	128.4	106.9	105.0	101.9	111.3	100.4	131.0	91.2
Bureau of Reclamation	10.1	10.9	11.0	13.1	13.4	10.7	11.1	10.1	10.5	12.0	10.6
Geological Survey[9]	112.2	128.7	144.2	145.2	168.2	150.1	169.9	227.2	229.9	225.6	210.4
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.3	1.5	1.5	1.1	1.0
National Park Service	7.6	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	1.0	2.1	1.5	1.9	2.0	.4	1.3	.6	.3	.6	2.0
Office of Surface Mining Reclamation & Enforcement	.0	.0	5.0	7.5	5.8	1.4	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	13.3	17.0	23.1	29.3	21.1	19.4	8.3	2.6	NA	NA	NA
US Fish & Wildlife Svc	53.6	60.5	83.2	87.7	89.5	90.1	97.5	58.8	48.8	46.0	51.7
Department of Justice, total	33.7	33.5	45.9	45.3	26.1	36.6	27.6	26.5	32.7	32.1	38.7
Bureau of Prisons	1.0	1.8	3.3	2.1	2.5	1.7	1.7	1.6	1.5	3.0	6.9
Drug Enforcement Admin	3.8	1.7	2.7	4.4	1.2	2.7	2.5	2.0	1.6	2.5	2.2
Federal Bureau of Investigation	1.1	.9	2.5	1.8	1.5	1.1	1.9	2.5	8.9	6.9	6.6
Immigration & Naturalization Service	.2	.3	.3	.3	1.0	.3	.2	.6	.4	.4	.4
Office of Justice Programs	27.6	27.1	35.5	35.1	19.2	30.4	21.1	19.6	20.1	19.2	22.4
Office of Legal Policy	.0	1.6	1.6	1.6	.7	.4	.2	.3	.2	.2	.2

See explanatory information, if any, and SOURCE at end of table.

Table C-93. Federal outlays for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

Page 3 of 4

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	28.1	97.6	109.2	137.7	61.6	29.4	16.8	14.1	13.7	10.9	20.3
Bureau of Labor Statistics	1.4	1.2	.9	.9	.3	.3	.7	.5	.6	.6	6.5
Employment Standards Admin	4.3	3.6	5.1	4.7	3.0	1.3	1.3	1.3	-	.0	1.0
Employment & Training Admin	16.8	86.6	93.0	121.7	52.1	20.2	6.0	3.5	4.5	3.4	4.4
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	.3	.3	.2	.3
Labor-Management Services Administration[10]	1.9	2.7	3.5	2.8	1.7	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.3	1.0	.9	1.5	1.9	2.6	2.1	2.7
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.5	1.1	1.1	.3	.2	.1	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.1	.9	1.0
Department of State, total[11]	40.1	57.4	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0
Agcy for Internat'l Dvlpmt[11]	37.8	54.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.3	2.8	3.2	2.2	1.8	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	346.0	364.1	356.2	374.7	415.9	347.0	272.4	344.6	416.1	429.8	336.6
Coast Guard	16.5	19.6	20.5	17.9	25.9	20.0	19.6	19.5	19.0	16.7	17.8
Federal Aviation Admin	99.8	99.2	101.9	104.2	119.8	106.6	90.3	155.1	270.1	303.3	180.1
Federal Highway Admin	52.6	52.5	48.7	53.1	56.3	42.5	32.5	51.1	47.5	45.5	76.0
Federal Railroad Admin	45.6	51.5	51.7	53.2	48.2	17.4	18.3	14.7	16.2	15.4	10.9
Federal Transit Admin	50.4	52.5	50.5	58.9	61.9	69.8	36.5	31.2	18.6	8.8	9.4
Maritime Administration[4]	NA	NA	NA	NA	17.4	18.9	13.5	11.1	10.2	14.1	7.2
National Highway Traffic Safety Administration	49.3	68.3	53.4	60.1	60.3	59.7	50.6	52.7	27.5	18.6	28.4
Office of the Secretary	31.8	19.7	16.7	14.9	13.9	5.6	4.0	5.0	4.7	5.2	4.7
Rsch & Special Programs Administration	.0	.8	12.8	12.4	12.3	6.5	7.1	4.2	2.4	2.3	2.1
Dept of the Treasury, total	4.9	9.9	9.5	10.9	10.8	13.6	15.5	13.5	24.2	22.9	26.3
Bureau of Alcohol, Tobacco, & Firearms	1.1	2.0	2.5	1.6	.3	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.5	3.7	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5
Internal Revenue Service	.0	2.4	3.6	4.0	4.2	5.4	8.0	7.9	15.9	13.4	14.1
United States Customs Svc	1.3	1.8	1.3	3.0	3.5	3.1	3.3	1.8	2.2	4.8	7.0
United States Mint	.0	.0	.0	.0	.0	.0	.0	.0	.6	-	.1
United States Secret Service	NA	NA	NA	-	.1	.3	.4	.2	.6	.4	.5
Department of Veterans Affairs	106.9	114.3	120.3	134.4	137.8	137.7	154.1	189.0	215.1	181.2	195.1
Other agencies:											
ACTION	.4	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.3	1.5	1.7	1.7	1.9	1.8	1.9	2.1	2.0	2.0	1.6
Appalachian Regional Comm	.6	.5	.9	.8	.4	.4	.2	.4	.2	.2	.1
Civil Service Commission	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	21.0	24.1	19.5	25.5	26.2	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	6.8	3.9	3.1	3.6	.9	.2	.5	1.2	2.2	2.0	2.1
Environmental Protection Agcy	281.3	310.3	386.5	384.7	344.3	336.2	312.5	266.1	274.8	306.9	325.9
Federal Communications Comm	1.9	2.4	1.9	3.1	1.6	1.2	1.3	.9	1.1	.9	1.0
Federal Emergency Management Agency, total[6] [5]	NA	6.8	12.0	11.2	11.6	8.8	3.2	10.9	4.6	.0	.0
National Fire Prevention & Control Administration[5]	NA	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.4	1.5	3.2	1.1	1.2	1.4	1.6	1.7	1.8	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	111.8	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.9	2.7	.5	.2	.6	1.0	.5	2.4	.4	1.2	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-93. Federal outlays for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	75.8	107.8	159.9	178.3	212.8	195.8	220.3	241.5	248.7
Agcy for Internat'l Dvlpmt[11]	NA	NA	75.8	107.8	159.9	178.3	212.8	195.8	220.3	241.5	248.7
Interstate Commerce Comm	0.1	0.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
Library of Congress	3.6	4.7	5.4	6.5	5.1	5.4	6.7	7.2	6.3	6.9	6.5
National Aeronautics & Space Administration	3,344.2	3,307.9	3,262.5	3,465.4	3,558.6	3,140.7	2,538.0	3,538.7	2,970.3	3,431.5	3,250.4
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.0	1.1
National Science Foundation	649.6	700.5	775.2	830.6	892.3	1,013.6	991.8	1,108.0	1,186.0	1,410.7	1,410.0
Nuclear Regulatory Commission	101.7	125.4	137.5	175.4	208.7	208.6	244.0	198.6	161.1	136.0	124.4
Office of Personnel Management	NA	4.5	6.0	6.8	8.1	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	29.8	34.6	37.2	39.1	43.5	48.0	56.2	54.6	58.9	62.5	69.9
Tennessee Valley Authority	26.5	31.5	37.2	74.7	93.9	89.3	63.3	66.0	80.7	78.9	76.5
United States Arms Control & Disarmament Agency	2.2	3.6	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	3.6
US Information Agency[14]	.1	.1	.1	.1	1.2	-	-	-	1.1	2.4	10.0
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	54,739.4	59,450.4	62,135.3	61,130.4	62,934.5	65,241.3	66,150.8	66,370.5	65,909.9	68,057.5	67,585.1
Departments:											
Dept of Agriculture, total	971.2	1,037.5	1,072.5	1,189.4	1,246.0	1,303.9	1,353.6	1,375.8	1,337.3	1,357.8	1,363.3
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.6	1.5	2.7	3.7	4.3	4.7	4.6	5.0	4.5	4.8	4.8
Agricultural Research Svc[2]	482.1	528.0	548.1	573.5	617.1	643.4	660.0	679.3	672.4	684.1	692.2
Animal & Plant Health Inspection Service	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.1	18.3
Cooperative State Rsch, Ed, & Extension Service[3]	277.3	298.3	303.9	380.1	354.9	379.4	404.1	418.8	403.8	404.8	401.5
Economic Research Service	47.2	50.0	50.7	53.0	57.5	61.5	57.3	52.0	50.1	53.3	54.2
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	.7	.9	1.3	1.4	1.4
Forest Service	135.8	134.7	139.6	144.7	174.8	179.3	190.8	193.5	177.9	179.8	179.8
Grain Inspection Packers & Stockyards Administration[5]	1.0	1.1	.6	.7	1.8	1.8	1.8	1.5	2.5	2.8	2.8
Human Nutrition Information Service[2]	8.2	8.4	9.0	8.9	9.7	7.3	5.3	NA	NA	NA	NA
National Agricultural Statistics Service	3.6	2.8	2.7	3.2	3.5	3.9	3.6	4.2	3.7	3.8	3.9
Office of International Cooperation & Dvlpmnt[4]	5.0	2.5	4.3	3.1	2.4	2.6	.0	NA	NA	NA	NA
Office of Transportation	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	378.6	394.0	426.8	485.1	622.1	629.6	797.4	863.0	918.1	991.8	987.2
Bureau of the Census	5.6	5.0	6.7	6.6	5.5	5.0	5.4	5.1	6.6	5.1	5.1
Economic Development Admin	2.4	1.1	1.5	1.0	1.1	.7	.3	1.0	.6	.6	.6
National Institute of Standards & Technology	101.3	113.0	112.3	135.9	149.1	180.1	225.2	327.4	378.0	432.7	444.3
National Oceanic & Atmospheric Administration	263.0	268.6	300.1	338.0	462.4	439.5	562.6	523.1	528.5	543.7	524.7
National Telecommunications & Information Administration	6.1	6.2	6.2	3.6	4.0	4.2	3.9	6.4	4.5	9.6	12.5
Office of the Secretary	.1	.1	-	-	-	-	-	-	.0	.0	.0
Department of Defense, total	34,156.8	36,453.4	36,703.2	33,013.5	34,220.8	34,152.7	34,918.2	33,629.5	35,106.8	34,412.3	32,433.7
Department of the Army	4,837.8	5,201.6	5,750.2	5,659.5	6,273.2	6,118.3	5,794.0	5,133.0	4,948.7	5,107.2	4,689.6
Department of the Navy	9,003.1	9,475.0	9,352.3	7,815.0	8,004.0	9,114.0	8,150.5	9,416.6	9,578.5	7,989.3	7,435.5
Department of the Air Force	14,567.0	15,190.8	14,687.9	12,825.6	12,346.1	12,056.9	12,645.5	12,024.9	13,420.3	13,837.1	13,733.5
Defense Agencies, total	5,622.1	6,409.5	6,765.0	6,621.8	7,358.7	6,628.0	8,084.7	6,808.2	6,890.2	7,179.1	6,283.6
Operational Test & Evaluation, Director	7.2	31.6	32.0	22.3	9.4	12.3	11.9	12.4	22.1	23.8	23.4
Test & Evaluation, Deputy Under Secretary of Defense	119.6	145.0	115.8	69.4	229.4	223.2	231.8	234.3	247.1	275.8	268.2
Department of Education	131.8	153.4	147.9	114.5	133.0	173.8	177.2	179.6	172.0	178.7	199.6
Department of Energy	4,964.7	5,200.6	5,508.4	5,727.2	6,034.7	6,185.1	5,974.7	6,152.2	5,846.2	5,584.8	5,766.7

See explanatory information, if any, and SOURCE at end of table.

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Table C-93a. Federal outlays for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	6,892.5	7,717.4	8,308.7	9,627.3	8,994.8	10,325.9	10,218.2	10,978.2	10,278.5	12,172.9	12,745.5
Administration on Aging[7]	NA	NA	NA	20.6	20.2	20.9	19.1	20.7	2.9	4.0	4.0
Administration for Children & Families[8] [7]	NA	NA	NA	110.2	35.1	19.3	11.3	12.0	11.9	14.2	18.7
Agency for Health Care Policy & Research[9]	NA	NA	5.3	11.9	113.5	87.6	111.0	133.0	80.0	95.0	88.0
Alcohol, Drug Abuse, & Mental Health Administration[10]	554.8	695.7	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	89.6	94.0	94.0	125.0	135.7	154.5	138.6	131.3	133.3	132.9	141.7
Health Care Financing Admin	31.4	32.5	14.4	21.7	63.9	69.5	72.3	72.9	75.4	77.2	55.1
Hlth Resources & Svcs Admin	10.0	10.5	11.9	11.0	10.1	9.6	16.4	12.8	11.2	11.4	9.4
Human Development Svcs[7]	50.9	73.3	76.7	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	6,031.2	6,645.0	7,127.0	7,714.0	8,409.2	9,765.1	9,614.8	10,262.8	9,645.6	11,457.3	12,046.7
Office of the Assistant Secretary for Health[9]	20.0	26.0	22.3	18.2	21.7	15.8	.7	.6	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	5.2	5.0	3.5	5.0	15.8	3.7
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	3.0	13.0	3.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	NA	NA	2.0	2.8	.7
Social Security Admin[11]	11.1	14.8	13.9	11.9	33.4	15.9	22.2	11.3	NA	NA	NA
Substance Abuse & Mental Health Services Admin	NA	NA	NA	NA	NA	NA	NA	NA	16.7	19.4	19.6
Dept of Housing & Urban Dvlpmt	14.9	20.7	21.7	18.1	23.5	28.4	28.5	38.0	36.2	32.6	36.9
Dept of the Interior, total	414.6	478.4	492.5	535.6	610.6	631.0	637.4	552.3	545.1	589.9	598.6
Bureau of Land Management	3.7	3.0	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0
Bureau of Mines[12]	87.6	90.6	93.6	96.3	113.9	111.8	107.9	.0	NA	NA	NA
Bureau of Reclamation	4.4	4.2	5.8	8.7	12.2	9.6	7.4	8.0	6.5	7.6	7.8
Geological Survey[13]	237.9	299.5	300.0	316.6	365.9	381.2	369.1	354.1	497.6	538.3	542.4
Minerals Management Service	1.2	1.9	1.8	2.5	3.4	5.1	18.3	19.8	20.7	20.6	22.5
National Biological Service[14] [13]	NA	NA	NA	NA	NA	.0	110.3	150.7	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	23.3	25.9
Office of the Secretary[15]	.4	.4	.2	.6	.9	.4	.1	-	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.8	1.0	.3	.4	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	59.0	58.8	67.3	73.6	76.6	75.5	.0	.0	.0	.0	.0
Department of Justice, total	48.1	36.0	38.2	40.4	42.9	46.2	42.0	49.0	72.7	75.6	80.4
Bureau of Prisons[16]	6.0	3.8	3.2	5.7	5.9	6.1	5.4	5.7	5.2	4.8	4.9
Drug Enforcement Admin	2.5	2.7	2.4	2.8	1.5	1.1	1.7	.4	1.2	.5	.5
Federal Bureau of Investigation	12.7	6.5	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.9	35.9
Immigration & Naturalization Service	5.2	.4	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	21.6	22.5	24.0	20.7	24.1	27.2	27.6	31.5	32.6	34.1	38.7
Department of Labor, total	31.8	28.9	45.2	45.6	70.8	57.8	60.7	51.7	50.1	45.7	41.2
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	6.9	7.1	13.1	13.3	12.6	12.4
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	11.2	9.2	25.6	23.7	51.0	39.2	41.8	23.1	24.6	23.8	19.8
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.2	4.3	6.6	3.9	4.0
Office of the Secretary	6.1	6.1	7.1	8.7	5.7	5.4	5.2	6.2	2.6	2.3	1.9
Pension Benefit Guaranty Corp	.3	.3	.5	.5	.9	1.3	.7	1.4	.6	.7	.7
Pension & Welfare Benefits Administration	2.6	1.3	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	4.2	4.7	4.7	5.9	5.6	5.3	.4	.5	1.0	.9	.9

See explanatory information, if any, and SOURCE at end of table.

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Table C-93a. Federal outlays for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Page 3 of 4

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	321.0	278.6	270.6	342.6	394.0	425.2	519.9	634.7	578.8	524.7	791.2
Coast Guard	14.6	18.1	21.0	14.5	22.4	31.7	25.5	20.6	22.8	26.1	20.3
Federal Aviation Admin	179.6	141.0	169.2	199.6	234.9	234.5	247.2	256.8	259.8	260.4	253.6
Federal Highway Admin	60.1	76.5	44.0	86.1	81.2	87.1	174.7	249.6	230.4	123.0	416.8
Federal Railroad Admin	10.3	6.7	7.0	12.8	20.6	21.6	18.6	21.5	18.5	34.5	24.2
Federal Transit Admin[18]	1.4	2.0	2.3	2.1	1.5	14.3	18.5	33.4	22.4	23.5	22.1
Maritime Administration[19]	2.6	.0	.9	1.5	1.7	1.7	1.7	2.3	.0	.0	.0
National Highway Traffic Safety Administration	45.2	28.5	16.9	19.2	24.5	28.3	26.9	41.4	15.0	44.9	41.9
Office of the Secretary	5.2	4.2	6.9	4.7	5.0	4.4	2.5	4.0	2.8	2.7	4.3
Rsch & Special Programs Administration	2.0	1.6	2.4	2.2	2.3	1.7	4.1	4.9	7.0	9.5	8.0
Dept of the Treasury, total	25.7	23.4	25.1	30.3	24.4	16.5	18.9	61.4	60.0	57.9	53.3
Bureau of Engraving & Printing	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.6	1.9
Financial Crimes Enforcement Network	.0	.0	0	1.8	1.5	1.5	.0	.0	.0	.0	0
Internal Revenue Svc[20 21]	14.0	14.0	16.3	17.3	17.3	6.5	11.3	49.7	51.2	48.7	41.1
Off of Thrift Supervision[22]	NA	NA	.0	3.0	8	7	.5	.6	.5	.6	6
United States Customs Svc	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	8.8
United States Mint	2	.3	.1	.5	.0	-	.4	.3	.0	.3	4
US Secret Service[23]	.4	6	.5	.4	.5	.6	5	.5	.5	.6	6
Department of Veterans Affairs	197.3	184.9	206.6	213.4	202.1	246.0	240.8	251.1	232.1	260.5	241.6
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.4	1.2	1.2	1.2	1.5	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	8	.4	.7	1.9	.9	.9	.9	9	9	9
Consumer Product Safety Comm	1.2	1.3	1.2	1.3	1.2	1.2	.4	.4	.1	-	.2
Environmental Protection Agcy	340.0	343.2	388.5	400.1	411.9	495.2	553.5	492.5	476.3	493.8	526.0
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	4	4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	.7	.0	.0	.0	.0	.0	.0	0	0
International Development Cooperation Agency, total	216.6	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	221.0	294.0
Agency for International Development[17 24]	216.6	279.1	334.0	344.0	205.9	321.7	372.6	256.8	251.0	221.0	294.0
Library of Congress	7.1	8.0	8.4	8.6	10.0	10.7	12.5	7.7	11.0	10.2	11.0
National Aeronautics & Space Administration	3,831.7	4,974.8	6,324.3	7,071.2	7,616.5	8,087.0	8,023.3	8,600.7	7,614.0	8,580.0	8,961.0
Nat'l Archives & Records Admin	.7	.3	.4	.7	.7	.3	.3	.1	.1	1	1
National Science Foundation	1,494.0	1,556.7	1,524.9	1,630.6	1,732.7	1,754.2	1,873.0	1,876.0	2,054.0	2,174.0	2,180.0
Nuclear Regulatory Commission	113.5	113.2	111.5	107.5	116.5	119.6	92.4	88.8	75.2	57.6	55.1
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	73.2	79.8	90.8	94.0	94.2	96.0	121.2	119.0	121.0	122.0	125.0
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table.

Table C-93a. Federal outlays for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	86.4	61.6	61.8	68.6	98.8	108.6	97.9	93.1	52.6	62.7	44.0
United States Arms Control & Disarmament Agency[25]	3.4	2.8	.2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.0
US Information Agency	1.5	1.0	.0	.2	.2	.2	.6	.3	.1	.1	.1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-94. Federal outlays for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 1 of 2

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	800.2	1,107.8	1,202.8	1,481.7	1,606.7	1,376.1	1,299.9	1,639.2	1,688.9	1,481.2	1,602.4
Departments:											
Dept of Agriculture, total	22.5	18.6	21.7	27.7	39.0	21.3	32.8	29.2	34.3	35.0	71.1
Agricultural Research Svc	NA	NA	NA	NA	35.8	18.5	30.7	25.0	26.7	32.4	63.3
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	.0	.0	.8	3.8	6.9	1.6	7.0
Forest Service	3.5	2.1	3.5	3.6	3.2	2.7	1.3	.4	.7	1.0	.8
Science & Ed Admin, total	19.0	16.5	18.2	24.1	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	18.9	16.5	18.2	24.1	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	.1	.0	.0	.0	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	5.7	3.5	1.9	4.8	1.3	1.0	.7	9.2	4.3	7.4	4.2
Maritime Administration[1]	3.7	.3	.5	6	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	.6	.9	1.4	.3	.5	1.0	.7	9.2	4.3	6.0	2.1
National Oceanic & Atmospheric Administration	1.4	2.3	.0	3.9	8	.0	0	.0	.0	1.5	2.1
Department of Defense, total	125.6	312.6	235.8	204.7	238.5	231.7	267.7	380.1	401.7	280.6	357.3
Department of the Army	14.8	6.8	2.1	7.6	8.9	13.5	21.5	34.4	53.4	55.0	60.7
Department of the Navy	63.6	49.1	52.9	90.9	92.2	125.3	136.7	150.3	143.8	130.7	65.0
Department of the Air Force	40.0	250.1	164.9	103.0	130.0	67.7	103.7	191.2	199.8	89.1	194.3
Defense Agencies, total	7.2	6.6	15.9	3.2	7.4	25.2	5.8	4.2	4.7	5.8	37.4
Department of Education	NA	NA	.0	.0	.0	.0	0	.0	.0	.8	15.8
Department of Energy[2] [3]	427.1	481.3	653.5	962.8	1,084.5	943.3	824.5	916.1	855.3	725.8	721.3
Department of Health, Education, & Welfare, total	45.6	68.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	4.3	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	41.3	66.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	73.4	76.9	42.6	36.8	26.5	34.6	42.6	32.7	31.5
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	.4	.1	.1	.4	1.0	4.1	1.4	5	.6
Food & Drug Administration	NA	NA	6	.7	.5	1.0	2.1	10.0	15.0	10.0	1.9
National Insts of Health	NA	NA	72.5	76.0	42.0	35.4	23.4	20.5	26.2	22.2	29.0
Dept of the Interior, total	4.4	7.7	9.0	8.7	4.1	1.3	2.4	5.2	4.2	6.1	4.8
Bonneville Power Admin[3]	.0	.0	.0	.0	3	NA	NA	NA	NA	NA	NA
Bureau of Mines	2.9	1	4.3	2.4	2.1	.2	.1	.1	.0	.0	.0
Geological Survey[4]	.0	.0	0	0	0	0	1.5	1.1	.9	.9	.8
National Park Service	-	0	.0	.0	0	.0	.0	.0	0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.0	0	0	.3	0	0	0	0	.0	.0	.0
Office of Water Rsch & Tech[4]	9	6	.7	.7	8	9	.0	0	NA	NA	NA
US Fish & Wildlife Svc	.6	7.0	4.0	5.3	1.0	3	8	4.0	3.3	5.2	4.0
Department of Justice, total	0	0	0	0	0	0	.0	.0	0	.0	3
Federal Bureau of Investigation	.0	0	0	0	.0	0	.0	.0	.0	0	3

See explanatory information, if any, and SOURCE at end of table

Table C-94. Federal outlays for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 2

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of State, total[5]	4.0	0.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
Agcy for Internat'l Dvlpmt[5]	4.0	.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dept of Transportation, total	17.5	13.2	16.2	16.3	16.2	13.0	9.9	12.9	14.1	15.5	11.2
Coast Guard	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Aviation Admin	3.0	1.0	9.5	5.5	6.1	4.3	9.2	12.4	13.6	14.3	10.4
Federal Highway Admin	.4	.4	.2	.3	2.8	.0	.0	.0	.0	.7	.3
Federal Railroad Admin	11.7	10.9	6.3	10.3	6.8	8.2	.2	.0	.0	.0	.0
Federal Transit Admin	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	.2	.2	.2	.2	.5	.5	.5	.5	.5	.5	.5
Dept of the Treasury, total	.1	-	-	-	.1	.1	.1	.1	.1	.1	.1
United States Customs Svc	.1	-	-	-	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	NA	NA	NA	.0	.0	.0	.0	.0	.0	.1	-
Department of Veterans Affairs	5.9	9.7	2.8	4.2	6.5	2.9	10.6	4.6	7.6	3.9	3.7
Other agencies:											
Consumer Product Safety Comm	.0	.3	2.7	2.7	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	1.6	2.2	2.4	.0	.0	.0	.0	.0	.0	.0	.0
General Services Admin[6]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0
International Development Cooperation Agency, total[5]	NA	NA	4.5	6.6	6.2	10.3	12.3	11.4	12.8	14.0	14.4
Agcy for Internat'l Dvlpmt[5]	NA	NA	4.5	6.6	6.2	10.3	12.3	11.4	12.8	14.0	14.4
National Aeronautics & Space Administration	105.0	124.3	132.7	140.3	146.9	112.2	108.1	191.9	246.8	299.1	313.9
National Science Foundation	25.1	38.0	29.4	17.6	12.7	1.5	2.9	43.0	64.0	57.3	49.9
Nuclear Regulatory Commission	6.1	6.2	8.0	7.4	7.3	.0	.0	.0	.0	.0	.0
Smithsonian Institution	.3	.1	.6	.4	.4	.4	1.1	.6	.9	1.5	1.6
Tennessee Valley Authority	3.7	21.9	8.2	.6	.4	.2	.4	.2	.3	.6	.4
United States Arms Control & Disarmament Agency	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0

[1] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[2] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[3] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[4] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[5] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[6] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-94a. Federal outlays for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 2

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	1,817.2	2,026.1	2,015.8	2,546.1	2,784.5	3,144.5	2,177.6	2,034.4	1,846.2	1,965.5	1,914.8
Departments:											
Dept of Agriculture, total	78.5	92.3	124.2	80.1	136.8	149.5	133.4	128.4	102.6	179.4	176.1
Agricultural Research Svc[1]	58.3	51.7	55.3	49.4	69.4	89.2	75.3	79.1	67.5	97.0	97.8
Animal & Plant Health Inspection Service	.5	.3	6.1	.0	.0	0	.0	.0	1.5	.0	0
Cooperative State Rsch, Ed, & Extension Service[2]	17.5	38.6	58.0	15.5	60.2	53.8	52.8	45.1	31.1	80.4	76.3
Foreign Agricultural Svc[3]	.0	.0	.0	.0	.0	0	4	.0	.0	0	0
Forest Service	2.2	1.7	4.9	15.1	7.2	6.5	4.9	4.3	2.5	2.0	2.0
Department of Commerce, total	10.9	9.1	14.7	15.5	21.3	22.4	12.9	23.5	26.9	30.3	29.6
Economic Development Admin	.3	.2	0	.0	0	0	0	.0	.0	0	.0
National Institute of Standards & Technology	10.1	8.5	8.1	8.3	11.4	9.6	12.7	23.0	26.9	30.3	29.6
National Oceanic & Atmospheric Administration	.5	.5	6.6	7.3	9.9	12.8	.3	.5	.0	0	0
Department of Defense, total	416.2	415.6	436.8	433.7	410.9	373.2	261.0	83.0	95.3	51.5	53.3
Department of the Army	61.8	39.7	46.8	65.0	22.0	7.0	3.8	4.2	5.6	4.8	4.4
Department of the Navy	78.8	84.5	101.2	87.0	111.0	73.5	62.9	37.5	26.6	17.6	25.3
Department of the Air Force	207.5	199.7	200.2	218.2	186.3	231.0	153.7	26.9	54.2	25.1	20.8
Defense Agencies, total	68.1	91.8	88.6	63.5	91.6	61.7	40.6	14.4	8.9	4.1	2.8
Department of Education	11.1	2.3	2.8	2.6	2.5	12.8	1.9	1.0	.1	2.0	2.0
Department of Energy	779.0	838.3	856.9	1,099.8	1,198.0	1,483.2	921.8	864.1	809.9	842.3	827.9
Department of Health & Human Services, total	30.7	56.0	55.1	194.8	96.7	149.3	134.2	267.0	140.5	183.0	213.2
Food & Drug Administration	1.7	2.0	1.0	18.4	14.3	19.7	21.9	16.7	5.5	3.4	6.5
Hlth Resources & Svcs Admin	.0	.0	.0	.0	.3	1.4	1.4	1.6	.7	.7	.0
National Insts of Health[4]	29.0	54.0	54.1	176.4	82.1	128.2	110.9	248.8	134.3	178.9	206.7
Social Security Admin[5]	.0	.0	.0	-	.0	.0	.0	.0	NA	NA	NA
Dept of the Interior, total	5.1	6.8	10.5	20.7	17.8	20.8	7.5	6.5	2.1	6.1	1.2
Bureau of Mines[6]	.0	2.1	3.0	1.5	0	.0	.0	0	NA	NA	NA
Geological Survey[7]	.8	1.4	1.3	2.9	4.4	4.0	6.3	5.3	1.1	5.1	1.2
Minerals Management Service	.0	.0	.2	.2	.7	1.0	1.1	1.0	1.0	1.0	.0
National Biological Service[8,7]	NA	NA	NA	NA	NA	0	1	3	NA	NA	NA
US Fish & Wildlife Svc[8]	4.3	3.4	6.0	16.1	12.7	15.8	0	0	.0	.0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-94a. Federal outlays for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Page 2 of 2

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	11.1	12.9	16.7	18.4	17.1	30.0	17.0	26.7	14.2	21.8	20.1
Coast Guard	.3	.0	.4	.4	.4	.5	.5	.5	.5	.5	.5
Federal Aviation Admin	10.5	12.6	16.3	16.5	15.9	25.6	11.7	14.0	6.0	18.0	15.0
Federal Highway Admin	.0	.0	.0	.0	.0	.4	3.8	10.9	6.1	.5	2.1
Federal Railroad Admin	.2	.3	-	1.5	.8	1.3	1.0	1.3	1.6	2.8	2.5
Federal Transit Admin[9]	.0	.0	0	.0	.0	2.2	.0	.0	.0	.0	.0
Dept of the Treasury, total	.1	.1	.1	.1	.1	.2	1.9	.2	.2	.2	.2
Bureau of Engraving & Printing	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0
United States Customs Svc	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
US Secret Service[10]	-	-	-	-	-	-	-	-	-	-	-
Department of Veterans Affairs	4.6	1.5	12.4	8.2	5.5	4.8	5.2	7.2	8.5	9.4	9.9
Other agencies:											
Environmental Protection Agcy	.0	.0	.0	.0	.0	2.5	4.8	3.0	0	.0	.0
General Services Admin	.0	.0	.0	3.6	20.9	7.6	5.5	1.3	4.1	2.5	.0
International Development Cooperation Agency, total	12.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Agency for International Development[11] [12]	12.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics & Space Administration	398.7	531.3	437.9	603.8	770.2	798.4	553.5	515.4	480.0	394.0	344.0
National Science Foundation	56.7	56.7	38.1	56.5	80.9	87.5	110.6	101.0	158.0	239.0	233.0
Smithsonian Institution	1.6	2.8	4.6	4.5	1.2	1.2	6.2	6.0	4.0	4.0	4.5
Tennessee Valley Authority	.5	.2	4.9	3.7	4.6	1.0	.0	.0	.0	.0	.0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[4] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[5] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[6] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[7] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[8] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[9] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[10] The United States Secret Service was formerly listed as the Office of Protective Research.

[11] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[12] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

24.

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 1 of 4

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	24,817.6	27,140.8	29,620.6	31,386.1	34,589.6	37,822.4	40,009.0	44,012.1	50,180.4	52,951.2	57,099.7
Departments:											
Dept of Agriculture, total	559.9	645.9	685.7	744.5	794.7	818.7	881.5	905.4	983.6	1,007.9	1,059.6
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7
Agricultural Marketing Svc[1]	.0	.0	1.0	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5
Agricultural Research Svc	NA	NA	NA	NA	411.6	426.0	466.8	480.1	498.7	532.6	522.4
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	199.4	219.0	242.3	245.7	294.3	278.6	338.3
Economic Research Service	NA	NA	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8
Economics, Statistics, & Cooperative Service[2]	30.5	32.7	35.5	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	31.1	NA	NA	NA	NA	NA	NA	NA
Forest Service	92.1	108.3	111.0	115.2	129.3	112.5	108.1	108.8	114.8	114.0	127.1
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	1.2
Human Nutrition Information Service	NA	NA	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4
Office of International Cooperation & Development	NA	NA	.0	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6
Office of Transportation	NA	NA	.7	.8	.9	.9	.8	1.0	1.2	1.0	1.1
Science & Ed Admin, total	437.3	505.0	537.5	589.3	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	310.1	347.5	365.0	405.0	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	127.3	157.4	172.6	184.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	251.8	287.7	311.8	347.2	329.3	337.3	335.7	367.6	403.0	408.4	407.5
Bureau of the Census	2.6	3.4	3.1	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7
Economic Development Admin	15.0	38.5	43.1	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0
Maritime Administration[4]	19.7	20.6	20.5	19.9	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[5]	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	53.9	59.1	69.3	76.4	83.0	89.9	95.7	104.9	104.7	108.5	100.7
National Oceanic & Atmospheric Administration	147.2	163.7	171.2	203.6	202.2	222.0	222.0	244.3	269.8	276.2	289.3
National Telecommunications & Information Administration	2.9	1.8	4.1	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8
Office of the Secretary	.0	.0	.1	.6	.0	-	-	.1	1.4	.3	-
Patent & Trademark Office	.5	.5	.5	.5	1.1	.7	.0	.0	.0	.0	.0
Department of Defense, total	11,409.0	11,786.2	12,776.4	14,189.2	16,786.3	20,913.1	23,305.3	25,902.1	30,322.4	33,224.1	35,708.7
Department of the Army	2,458.2	2,556.5	2,772.5	2,993.8	3,257.0	3,785.2	4,024.4	4,281.7	4,623.7	4,863.3	5,085.2
Department of the Navy	3,878.6	4,046.7	4,403.1	4,789.3	5,103.9	6,001.0	6,209.9	7,779.0	9,309.5	9,747.9	9,576.8
Department of the Air Force	4,381.1	4,422.4	4,693.1	5,319.0	7,128.8	9,442.6	10,951.3	12,377.0	13,552.2	13,723.9	15,618.0
Defense Agencies, total	659.5	724.5	878.4	1,049.2	1,255.6	1,643.3	2,058.1	1,405.7	2,786.3	4,771.9	5,291.8
Defense Civil Preparedness Agency[6]	1.3	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	NA	NA	.0	8.4
Test & Evaluation, Deputy Under Secretary of Defense	30.2	28.6	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5

See explanatory information, if any, and SOURCE at end of table.

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 4

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	166.3	139.4	.0	128.0	111.7	115.7	126.0	127.9	153.5
Department of Energy[7,8]	4,097.2	4,935.5	5,483.2	5,777.8	5,896.4	5,622.2	5,294.4	5,526.0	5,834.4	5,430.6	5,529.4
Department of Health, Education, & Welfare, total	2,955.9	3,281.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	153.0	180.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	55.3	60.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	43.7	65.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	7.4	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	17.7	18.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	64.9	89.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	2,411.7	2,654.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.0	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	32.2	36.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	31.1	32.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	76.8	75.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	20.0	30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	11.2	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	3,558.4	3,810.8	3,950.9	3,965.4	4,400.4	4,861.8	5,493.2	5,695.5	6,643.0
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	214.4	233.5	239.7	251.4	304.0	337.5	377.9	396.6	476.1
Centers for Disease Control & Prevention	NA	NA	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2
Food & Drug Administration	NA	NA	66.7	76.6	72.6	75.0	102.7	80.8	95.1	87.4	85.8
Health Care Financing Admin	NA	NA	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3
Health Resources Admin	NA	NA	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	10.1	13.3	18.5	19.7	12.3	9.3
Health Services Admin	NA	NA	28.7	26.7	20.3	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	57.1	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0
National Insts of Health	NA	NA	3,000.8	3,211.2	3,355.5	3,452.6	3,806.8	4,285.2	4,856.5	5,034.5	5,886.2
Office of the Assistant Secretary for Health	NA	NA	34.6	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2
Office of the Secretary	NA	NA	24.7	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2
Social Security Admin	NA	NA	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8
Dept of Housing & Urban Dvlpmt	52.1	69.7	67.9	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3
Dept of the Interior, total	319.7	374.0	410.8	418.8	430.6	382.4	384.9	416.1	395.9	389.6	415.7
Bonneville Power Admin[8]	.0	.0	.0	.0	14.4	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.9	1.2	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7
Bureau of Mines	105.3	121.1	121.3	114.4	97.4	94.8	88.6	108.8	89.9	84.4	88.8
Bureau of Reclamation	9.9	11.2	12.2	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7
Geological Survey[9]	117.5	133.7	145.6	146.3	169.8	152.6	158.4	209.9	215.7	219.5	227.6
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0
National Park Service	7.8	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	4.5	1.7	1.4	2.2	1.5	5	7.4	.1	1.9	1.0	0
Office of Surface Mining Reclamation & Enforcement	.0	2.2	5.0	7.8	5.8	1.5	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	16.0	28.0	28.0	30.0	21.8	12.3	2.2	3.6	NA	NA	NA
US Fish & Wildlife Svc	57.7	67.2	87.1	94.1	93.3	94.2	97.7	63.3	52.4	50.5	64.3
Department of Justice, total	27.7	60.9	43.0	41.5	26.5	26.7	31.4	24.5	36.0	36.5	53.5
Bureau of Prisons	1.1	3.6	3.4	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1
Drug Enforcement Admin	3.0	1.9	2.4	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2
Federal Bureau of Investigation	1.4	1.8	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	19.1
Immigration & Naturalization Service	.3	.4	.2	.3	1	6	6	.6	4	4	4
Office of Justice Programs	21.8	51.6	32.2	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6
Office of Legal Policy	.0	1.6	1.7	1.8	8	.4	3	.0	3	.2	.1

See explanatory information, if any, and SOURCE at end of table.

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 3 of 4

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	29.6	97.8	137.0	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6
Bureau of Labor Statistics	1.4	1.2	.9	.9	.3	.3	.7	.5	.6	.6	6.5
Employment Standards Admin	4.4	3.7	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0
Employment & Training Admin	16.8	86.6	120.8	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	.3	.3	.2	.3
Labor-Management Services Administration[10]	3.3	2.8	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.5	1.1	1.1	.3	.2	.1	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0
Department of State, total[11]	77.6	85.4	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0
Agcy for Internat'l Dvlpmt[11]	75.3	82.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.3	2.8	3.2	2.2	1.8	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	377.1	422.4	392.7	384.5	434.5	322.0	369.6	465.2	437.9	397.5	336.2
Coast Guard	19.5	24.4	21.1	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0
Federal Aviation Admin	106.4	111.5	120.4	108.8	128.9	99.4	147.6	282.6	294.8	271.5	177.7
Federal Highway Admin	55.9	52.1	53.5	58.3	51.2	40.3	50.4	46.4	49.0	46.1	76.9
Federal Railroad Admin	58.5	65.7	56.1	56.4	46.1	24.5	16.5	19.2	15.0	15.4	11.2
Federal Transit Admin	61.6	69.6	58.0	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6
Maritime Administration[4]	NA	NA	NA	NA	14.2	11.1	15.0	9.9	13.9	9.4	5.8
National Highway Traffic Safety Administration	47.2	66.5	56.8	63.8	66.4	55.9	52.5	57.4	28.6	22.9	28.4
Office of the Secretary	28.0	31.7	11.7	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5
Rsch & Special Programs Administration	.0	.9	15.0	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1
Dept of the Treasury, total	4.9	9.9	9.6	12.1	11.4	13.4	15.6	13.9	24.4	24.2	27.0
Bureau of Alcohol, Tobacco, & Firearms	1.1	2.0	2.5	1.6	3	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.5	3.7	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5
Internal Revenue Service	.0	2.4	3.6	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6
United States Customs Svc	1.3	1.8	1.4	3.9	3.5	3.2	3.4	1.9	2.3	4.9	7.1
United States Mint	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.2
United States Secret Service	NA	NA	NA	.4	.6	.0	.3	.2	.6	.5	.5
Department of Veterans Affairs	112.9	118.1	132.1	137.8	159.2	140.1	171.9	196.4	229.9	191.0	215.4
Other agencies:											
ACTION	.5	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9
Appalachian Regional Comm	.7	.5	.9	.8	.4	.4	.2	.5	.2	.2	.1
Civil Service Commission	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	24.0	24.3	20.7	30.3	18.3	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	6.7	4.1	6.6	6.2	.5	.2	.5	1.3	2.4	2.0	2.2
Environmental Protection Agcy	297.6	389.3	412.5	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2
Federal Communications Comm	2.0	2.4	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0
Federal Emergency Management Agency, total[6] [5]	NA	7.0	12.6	11.8	11.6	9.2	3.3	11.5	4.1	.0	.0
National Fire Prevention & Control Administration[5]	NA	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.4	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	104.9	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.9	2.7	.5	.2	.6	1.0	.5	2.4	.4	20.0	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-95. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	112.9	155.6	142.2	205.9	232.0	245.0	227.2	258.7	224.3
Agcy for Internat'l Dvlpmt[11]	NA	NA	112.9	155.6	142.2	205.9	232.0	245.0	227.2	258.7	224.3
Interstate Commerce Comm	0.1	0.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
Library of Congress	3.8	4.9	5.9	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5
National Aeronautics & Space Administration	3,288.9	3,495.6	3,725.9	3,393.2	3,708.9	3,191.6	2,762.3	3,066.1	3,561.5	3,694.8	4,096.5
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.0	1.1
National Science Foundation	724.1	788.5	838.1	900.5	976.2	976.8	1,065.2	1,248.0	1,419.1	1,406.5	1,531.8
Nuclear Regulatory Commission	119.4	140.8	157.4	190.4	227.3	220.3	207.3	190.7	150.0	123.8	122.5
Office of Personnel Management	NA	4.5	6.0	6.8	8.4	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	29.8	35.1	37.9	41.9	45.3	52.9	57.0	63.8	72.7	64.0	74.4
Tennessee Valley Authority	30.2	53.4	89.2	80.7	69.3	85.3	63.3	68.3	80.0	78.3	78.2
United States Arms Control & Disarmament Agency	2.2	3.6	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	4.6
US Information Agency[14]	.1	.1	.1	.1	1.5	.1	-	1.4	.1	2.0	3.5
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

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[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	58,826.5	63,571.6	65,831.2	64,148.0	68,577.2	70,414.7	69,428.2	70,997.3	69,408.7	71,996.1	71,592.7
Departments:											
Dept of Agriculture, total	1,151.8	1,127.5	1,210.6	1,381.3	1,491.8	1,470.2	1,525.6	1,523.6	1,430.4	1,561.9	1,475.8
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.8
Agricultural Research Svc[2]	561.2	578.7	589.9	655.7	725.2	705.5	757.0	751.0	743.1	774.7	794.6
Animal & Plant Health Inspection Service	6.2	7.7	14.0	15.7	16.7	17.1	19.2	19.1	19.5	19.1	18.3
Cooperative State Rsch. Ed. & Extension Service[3]	374.7	339.4	371.1	438.3	481.2	479.2	471.6	489.0	418.9	514.4	406.4
Economic Research Service	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	55.1	57.3
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4
Forest Service	138.4	133.0	163.5	193.1	184.3	186.3	198.0	197.8	180.4	181.8	181.8
Grain Inspection Packers & Stockyards Administration[5]	1.0	1.1	.6	.7	1.5	1.8	1.8	1.5	2.5	2.8	2.8
Human Nutrition Information Service[2]	8.2	8.4	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA
National Agricultural Statistics Service	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.9	4.0
Office of International Cooperation & Dvlpmnt[4]	5.0	2.5	3.6	3.1	1.5	1.5	.0	NA	NA	NA	NA
Office of Transportation	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	400.2	407.0	453.5	505.4	672.2	681.7	857.3	1,213.7	1,152.0	1,074.9	1,059.3
Bureau of the Census	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3	4.9	4.9
Economic Development Admin	4.2	1.0	1.2	1.4	.5	.0	.6	.5	.6	.6	.6
National Institute of Standards & Technology	118.7	124.2	131.0	148.4	190.2	219.8	284.1	640.5	601.0	511.7	510.3
National Oceanic & Atmospheric Administration	263.5	269.1	306.7	345.3	472.2	452.4	562.9	561.4	528.5	543.7	524.7
National Telecommunications & Information Administration	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7	14.0	18.8
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	-	-	-	-
Department of Defense, total	35,684.6	38,076.2	37,755.5	32,560.5	36,526.0	36,220.7	34,796.3	34,411.1	34,541.7	34,995.8	34,117.5
Department of the Army	4,898.8	5,704.5	5,737.2	6,172.5	6,876.2	6,227.2	5,576.2	5,424.7	4,879.7	4,933.3	4,584.7
Department of the Navy	9,588.9	9,755.7	9,646.6	7,860.0	8,126.8	9,148.3	9,005.1	8,974.5	8,614.4	8,222.8	7,866.3
Department of the Air Force	15,011.0	15,487.6	15,153.6	11,089.8	13,606.8	12,866.9	12,626.8	11,835.7	13,066.5	13,951.0	14,451.0
Defense Agencies, total	5,957.3	6,973.3	6,996.8	7,200.9	7,670.5	7,723.3	7,345.2	7,923.5	7,701.5	7,625.3	6,922.3
Operational Test & Evaluation, Director	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	25.0	23.5
Test & Evaluation, Deputy Under Secretary of Defense	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	238.4	269.7
Department of Education	145.9	161.0	178.8	175.2	170.9	179.9	178.4	179.4	173.7	192.1	227.5
Department of Energy	5,951.4	6,065.6	6,546.6	7,203.2	7,493.0	7,723.7	6,959.8	6,890.0	6,050.8	6,434.4	6,449.3

See explanatory information, if any, and SOURCE at end of table.

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	7,177.6	7,981.4	8,513.4	9,842.3	9,084.6	10,498.5	11,141.7	11,711.0	12,086.2	13,136.6	13,323.9
Administration on Aging[7]	NA	NA	NA	20.6	20.2	20.9	19.1	20.7	3.7	4.4	4.4
Administration for Children & Families[8] [7]	NA	NA	NA	129.0	39.2	19.9	11.3	12.0	12.6	21.2	31.3
Agency for Health Care Policy & Research[9]	NA	NA	49.7	101.1	106.3	114.8	154.4	135.3	125.2	143.6	149.0
Alcohol, Drug Abuse, & Mental Health Administration[10]	554.8	695.7	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	91.5	122.0	122.0	143.5	150.0	174.2	177.8	175.8	176.4	173.7	188.1
Health Care Financing Admin	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	44.0	45.0
Hlth Resources & Svcs Admin	10.0	10.5	11.9	11.0	10.5	11.0	17.8	14.8	11.8	12.0	9.4
Human Development Svcs[7]	54.0	101.7	95.4	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	6,309.9	6,833.8	7,221.3	7,763.4	8,491.4	9,893.3	10,439.9	10,930.6	11,377.9	12,352.1	12,508.5
Office of the Assistant Secretary for Health[9]	21.0	27.2	6.9	10.0	6.7	1.2	.8	3	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	12.7	20.4	10.1
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	9.0	18.5	9.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	NA	NA	3.7	1.9	1.1
Social Security Admin[11]	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	NA	NA	NA
Substance Abuse & Mental Health Services Admin	NA	NA	NA	NA	NA	NA	NA	NA	16.7	19.4	19.6
Dept of Housing & Urban Dvlpmt	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1	36.2	39.5
Dept of the Interior, total	426.1	479.8	522.6	615.1	627.6	642.2	703.1	568.3	569.5	583.2	597.8
Bureau of Land Management	3.7	3.0	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0
Bureau of Mines[12]	91.3	101.2	102.3	108.2	107.1	111.9	107.9	.0	NA	NA	NA
Bureau of Reclamation	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.6	7.8
Geological Survey[13]	236.9	281.1	309.7	359.8	365.7	360.4	377.4	367.4	520.1	528.9	540.1
Minerals Management Service	1.2	2.2	2.0	2.9	4.8	6.9	21.8	21.0	22.6	23.3	23.9
National Biological Service[14] [13]	NA	NA	NA	NA	NA	0	164.2	152.1	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	23.3	25.9
Office of the Secretary[15]	.4	.4	.2	.6	.9	.4	.1	-	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.7	1.0	.3	.5	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	67.8	67.5	78.9	97.6	98.2	104.8	.0	.0	.0	.0	.0
Department of Justice, total	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3	89.5	85.2
Bureau of Prisons[16]	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.8	4.9
Drug Enforcement Admin	2.5	2.7	2.4	2.7	1.4	.9	.9	.4	1.2	.5	.5
Federal Bureau of Investigation	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.9	35.9
Immigration & Naturalization Service	.3	.1	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2	48.0	43.4
Department of Labor, total	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4	40.6	38.0
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9	18.8	16.6
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	3.9	4.1
Office of the Secretary	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6	2.3	1.9
Pension Benefit Guaranty Corp	.3	.3	.5	.5	.9	1.3	1.3	.8	.7	.7	.7
Pension & Welfare Benefits Administration	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	4.2	4.7	4.7	5.9	5.6	5.3	.4	.5	.9	.8	.8

See explanatory information, if any, and SOURCE at end of table.

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	318.5	318.9	388.3	398.3	470.3	577.6	661.7	755.8	584.3	673.3	684.1
Coast Guard	21.4	17.9	20.6	25.9	20.5	33.4	22.8	20.2	20.5	25.5	20.2
Federal Aviation Admin	173.8	162.3	237.5	236.4	260.2	271.3	318.6	310.1	228.9	262.8	243.0
Federal Highway Admin	74.1	91.0	91.5	86.9	131.0	175.7	242.0	315.6	247.3	289.9	329.2
Federal Railroad Admin	10.4	9.0	10.2	17.6	22.8	26.8	20.6	30.1	30.1	23.1	21.6
Federal Transit Admin[18]	2.3	1.4	1.6	1.7	1.7	31.3	19.9	28.7	13.7	19.9	15.7
Maritime Administration[19]	.5	.0	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	0
National Highway Traffic Safety Administration	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.5	42.0
Office of the Secretary	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8	2.7	4.3
Rsch & Special Programs Administration	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7	12.9	8.0
Dept of the Treasury, total	26.2	25.7	25.7	31.0	24.8	16.8	19.1	61.5	60.2	58.8	53.1
Bureau of Engraving & Printing	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.6	1.9
Financial Crimes Enforcement Network	.0	.0	.0	2.3	1.2	1.5	.0	.0	.0	.0	.0
Internal Revenue Svc[20,21]	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2	48.7	41.1
Off of Thrift Supervision[22]	NA	NA	.0	3.0	.8	.7	.5	.6	.5	.6	.6
United States Customs Svc	9.3	6.9	6.3	3.8	2.3	4.1	4.6	8.6	6.3	6.3	8.9
United States Mint	.1	2.0	.1	.1	.0	.1	.5	.3	.0	1.1	.0
US Secret Service[23]	.4	.6	.5	.4	.6	.6	.5	.6	.5	.6	.6
Department of Veterans Affairs	234.8	245.7	241.0	220.0	229.6	239.5	259.7	245.1	259.9	292.4	248.6
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	.8	.4	.7	1.9	.9	.9	.9	.9	.9	.9
Consumer Product Safety Comm	1.1	1.3	1.1	1.3	1.1	1.2	.3	.4	-	.0	.2
Environmental Protection Agcy	347.4	380.3	419.7	432.6	483.9	497.8	558.3	556.3	464.3	504.0	553.9
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	.4	.4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	19.5	22.6	6.5	1.0	.3	5.1	.1	.1	.0
International Development Cooperation Agency, total	210.6	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	169.0	225.0
Agency for International Development[17,24]	210.6	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	169.0	225.0
Library of Congress	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6	9.9	11.7
National Aeronautics & Space Administration	4,758.6	5,913.0	7,060.3	8,003.8	8,475.4	8,769.2	8,811.5	9,639.7	8,987.5	9,414.8	9,598.8
Nat'l Archives & Records Admin	.7	.3	.4	.7	.7	.3	.3	.1	.1	.1	.1
National Science Foundation	1,589.6	1,724.0	1,728.8	1,944.8	1,970.0	2,012.3	2,212.2	2,438.9	2,375.5	2,424.2	2,519.2
Nuclear Regulatory Commission	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	57.0	53.9
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	75.8	83.6	88.8	99.5	101.8	107.0	129.2	129.0	132.0	133.5	137.0
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table.

Table C-95a. Federal obligations for research and development and for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

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Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	87.7	62.8	69.8	73.1	100.5	109.6	97.9	93.1	52.6	62.7	44.0
United States Arms Control & Disarmament Agency[25]	3.4	2.8	.2	.4	2.1	1.5	1.3	1.1	7	1.2	1.0
US Information Agency	.4	.1	.5	.1	.0	1.1	.6	.3	.1	.1	.1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Table C-96. Federal obligations for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7
Departments:											
Dept of Agriculture, total	547.0	621.3	663.0	687.6	774.0	797.3	847.6	866.2	943.0	928.5	947.9
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7
Agricultural Marketing Svc[1]	.0	.0	1.0	1.3	1.1	1.2	1.4	1.5	1.7	1.6	1.5
Agricultural Research Svc	NA	NA	NA	NA	394.1	404.9	443.4	451.3	469.7	463.4	478.6
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	199.4	219.0	232.3	235.7	284.3	269.0	270.7
Economic Research Service	NA	NA	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8
Economics, Statistics, & Cooperative Service[2]	30.5	32.7	35.5	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	31.1	NA	NA	NA	NA	NA	NA	NA
Forest Service	90.3	105.6	107.5	111.5	126.1	112.1	107.7	108.4	113.1	113.3	126.7
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	0	.0	0	.9	1.0	1.2
Human Nutrition Information Service	NA	NA	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4
Office of International Cooperation & Development	NA	NA	.0	5.3	3.9	2.6	5.3	8.2	7.7	7.0	5.6
Office of Transportation	NA	NA	.7	.8	.9	.9	.8	1.0	1.2	1.0	1.1
Science & Ed Admin, total	426.2	483.0	518.4	536.0	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	298.9	325.5	345.8	351.8	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	127.3	157.4	172.6	184.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	244.7	283.7	309.4	342.5	327.9	336.3	335.0	358.2	398.8	399.2	402.2
Bureau of the Census	2.6	3.4	3.1	3.2	3.9	3.8	4.3	4.4	4.9	4.7	4.7
Economic Development Admin	15.0	38.5	43.1	32.3	28.1	9.6	5.3	5.1	13.0	10.3	5.0
Maritime Administration[4]	14.8	19.6	19.6	19.4	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[5]	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	53.2	58.3	67.8	76.2	82.5	88.8	95.0	95.5	100.5	100.8	98.6
National Oceanic & Atmospheric Administration	145.7	161.5	171.2	199.8	201.4	222.0	222.0	244.3	269.8	274.7	286.1
National Telecommunications & Information Administration	2.9	1.8	4.1	10.7	10.9	11.3	8.3	8.7	9.1	8.4	7.8
Office of the Secretary	.0	.0	.1	.6	.0	-	-	.1	1.4	.3	-
Patent & Trademark Office	.5	.5	.5	.5	1.1	.7	.0	.0	.0	.0	.0
Department of Defense, total	10,963.4	11,553.6	12,506.2	13,981.0	16,508.6	20,622.6	22,992.8	25,372.9	29,791.5	32,937.9	35,231.5
Department of the Army	2,441.9	2,548.9	2,768.7	2,980.0	3,244.2	3,760.5	3,998.1	4,225.5	4,570.8	4,809.4	5,019.5
Department of the Navy	3,817.4	3,998.4	4,335.0	4,706.1	5,006.0	5,845.1	6,068.2	7,605.6	9,127.4	9,650.3	9,507.8
Department of the Air Force	4,031.1	4,262.3	4,525.6	5,211.0	6,969.2	9,357.9	10,812.6	12,091.6	13,260.9	13,593.8	15,347.7
Defense Agencies, total	641.4	707.9	847.6	1,046.0	1,248.2	1,618.1	2,052.3	1,391.5	2,781.7	4,767.4	5,219.7
Defense Civil Preparedness Agency[6]	1.3	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	NA	NA	.0	8.4
Test & Evaluation, Deputy Under Secretary of Defense	30.2	28.6	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5

See explanatory information, if any, and SOURCE at end of table.

Table C-96. Federal obligations for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	166.3	139.4	.0	128.0	111.7	115.7	124.9	121.3	132.5
Department of Energy[7,8]	3,536.2	4,244.8	4,638.8	4,753.7	4,918.2	4,708.2	4,536.7	4,673.6	4,966.0	4,688.3	4,757.2
Department of Health, Education, & Welfare, total	2,823.3	3,207.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	153.0	180.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	55.3	60.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	42.9	64.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	7.4	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	17.7	18.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	64.9	89.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	2,279.9	2,580.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.0	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	32.2	36.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	31.1	32.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	76.8	75.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	20.0	30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	11.2	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	3,504.9	3,780.2	3,927.1	3,940.7	4,352.5	4,830.7	5,451.0	5,657.6	6,606.3
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	214.3	233.5	239.4	248.1	302.2	337.2	377.6	396.1	475.5
Centers for Disease Control & Prevention	NA	NA	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2
Food & Drug Administration	NA	NA	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0
Health Care Financing Admin	NA	NA	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3
Health Resources Admin	NA	NA	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	10.1	13.3	18.5	19.7	12.3	9.3
Health Services Admin	NA	NA	28.7	26.7	20.3	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	57.1	49.3	73.7	27.2	23.4	18.3	24.3	54.6	53.0
National Insts of Health	NA	NA	2,953.1	3,181.8	3,333.2	3,433.1	3,789.2	4,257.4	4,827.7	5,005.1	5,850.9
Office of the Assistant Secretary for Health	NA	NA	34.6	29.9	33.1	16.1	16.6	18.1	18.6	17.3	21.2
Office of the Secretary	NA	NA	24.7	24.0	19.5	13.4	14.4	10.4	9.6	6.1	8.2
Social Security Admin	NA	NA	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8
Dept of Housing & Urban Dvlpmt	52.1	69.7	67.9	56.0	48.1	28.9	32.1	18.2	18.5	15.3	16.3
Dept of the Interior, total	314.7	359.0	405.8	411.3	427.1	381.1	382.5	410.9	391.7	385.2	403.8
Bonneville Power Admin[8]	.0	.0	.0	.0	14.2	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.9	1.2	1.3	1.7	1.9	5.3	3.9	3.8	4.4	3.4	3.7
Bureau of Mines	101.9	114.0	121.0	113.4	96.7	94.7	88.5	108.8	89.9	84.4	88.8
Bureau of Reclamation	9.9	11.2	12.2	14.1	14.3	10.1	10.0	10.4	13.2	10.2	10.7
Geological Survey[9]	117.5	133.7	145.6	146.3	169.8	152.6	157.0	208.9	214.9	218.6	226.8
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0
National Park Service	7.8	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	4.5	1.7	1.4	2.2	1.5	.5	7.4	1	1.9	1.0	.0
Office of Surface Mining Reclamation & Enforcement	.0	2.2	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	15.1	27.4	27.2	29.3	21.1	11.4	2.2	3.6	NA	NA	NA
US Fish & Wildlife Svc	57.1	59.9	83.1	88.6	91.5	93.9	96.7	59.1	49.0	47.0	53.3
Department of Justice, total	27.7	60.9	43.0	41.5	26.5	26.7	31.4	24.5	36.0	36.5	42.4
Bureau of Prisons	1.1	3.6	3.4	2.1	2.5	1.7	1.7	1.6	1.5	3.0	7.1
Drug Enforcement Admin	3.0	1.9	2.4	2.7	1.3	3.2	2.5	1.9	1.6	2.5	2.2
Federal Bureau of Investigation	1.4	1.8	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0
Immigration & Naturalization Service	.3	.4	.2	3	.1	.6	.6	.6	.4	.4	.4
Office of Justice Programs	21.8	51.6	32.2	33.2	21.0	18.0	23.8	19.5	22.7	23.2	24.6
Office of Legal Policy	.0	1.6	1.7	1.8	.8	.4	.3	.0	.3	.2	.1

See explanatory information, if any, and SOURCE at end of table.

Table C-96. Federal obligations for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	29.6	97.8	137.0	138.1	62.2	25.4	19.9	16.3	13.3	10.4	21.6
Bureau of Labor Statistics	1.4	1.2	.9	.9	.3	.3	.7	.5	.6	.6	6.5
Employment Standards Admin	4.4	3.7	5.3	4.9	3.2	1.4	1.4	.9		0	1.0
Employment & Training Admin	16.8	86.6	120.8	121.7	52.4	16.1	9.0	6.1	3.5	3.5	5.7
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	.3	.3	.2	.3
Labor-Management Services Administration[10]	3.3	2.8	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.4	1.1	.9	1.5	1.9	2.6	2.1	2.7
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.5	1.1	1.1	.3	.2	.1	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0
Department of State, total[11]	61.4	85.2	3.2	2.2	1.8	1.5	1.5	1.6	1.5	1.5	3.0
Agcy for Internat'l Dvlpmt[11]	59.1	82.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.3	2.8	3.2	2.2	1.8	.0	.0	.0	.0	0	.0
Dept of Transportation, total	354.6	408.3	370.1	361.2	415.5	310.1	347.7	448.3	428.9	385.5	325.0
Coast Guard	18.9	23.7	21.1	18.0	26.3	20.0	19.6	19.5	19.0	16.9	17.0
Federal Aviation Admin	103.4	110.5	110.5	103.1	120.0	94.3	126.2	266.2	286.3	260.6	167.3
Federal Highway Admin	55.5	51.7	52.9	51.1	51.2	40.3	50.4	46.4	49.0	45.5	76.7
Federal Railroad Admin	41.9	53.9	44.2	46.2	36.6	18.2	16.5	19.2	15.0	15.4	11.2
Federal Transit Admin	59.9	69.6	58.0	54.4	78.2	61.4	57.0	20.1	10.2	8.2	12.6
Maritime Administration[4]	NA	NA	NA	NA	14.2	11.1	15.0	9.9	13.9	9.4	5.8
National Highway Traffic Safety Administration	47.0	66.3	56.6	63.6	65.9	55.4	52.0	56.9	28.1	22.4	27.9
Office of the Secretary	28.0	31.7	11.7	10.8	10.1	3.3	4.9	4.9	4.8	5.1	4.5
Rsch & Special Programs Administration	.0	.9	15.0	14.0	13.1	6.1	6.2	5.2	2.7	2.0	2.1
Dept of the Treasury, total	4.8	9.9	9.5	12.0	11.3	13.3	15.6	13.9	24.3	24.0	26.9
Bureau of Alcohol, Tobacco, & Firearms	1.1	2.0	2.5	1.6	.3	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	2.5	3.7	2.1	2.3	2.7	4.8	3.9	3.6	5.0	4.2	4.5
Internal Revenue Service	.0	2.4	3.6	4.0	4.2	5.4	8.0	8.2	15.9	14.2	14.6
United States Customs Svc	1.2	1.8	1.3	3.8	3.5	3.1	3.3	1.8	2.2	4.8	7.0
United States Mint	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.2
United States Secret Service	NA	NA	NA	.4	.6	.0	.3	.2	.6	.4	.5
Department of Veterans Affairs	107.0	114.0	127.0	133.4	144.4	137.3	161.4	190.3	226.6	186.2	209.5
Other agencies:											
ACTION	.5	1.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9
Appalachian Regional Comm	.7	.5	.9	.8	.4	.4	.2	.5	.2	.2	.1
Civil Service Commission	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	24.0	24.3	20.7	30.3	18.3	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	6.7	3.8	3.9	3.5	.5	.2	.5	1.3	2.4	2.0	2.2
Environmental Protection Agcy	295.5	384.6	410.1	345.0	325.7	335.1	240.7	261.2	320.4	317.3	348.2
Federal Communications Comm	2.0	2.4	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0
Federal Emergency Management Agency, total[6 5]	NA	7.0	12.6	11.8	11.6	9.2	3.3	11.5	4.1	.0	.0
National Fire Prevention & Control Administration[5]	NA	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.4	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	104.9	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.9	2.7	.5	.2	.6	1.0	.5	2.4	.4	1.2	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-96. Federal obligations for research and development, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	106.5	149.3	134.2	199.9	227.3	237.2	220.4	251.2	217.5
Agcy for Internat'l Dvlpmt[11]	NA	NA	106.5	149.3	134.2	199.9	227.3	237.2	220.4	251.2	217.5
Interstate Commerce Comm	0.1	0.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
Library of Congress	3.8	4.9	5.9	6.9	4.9	5.7	7.4	7.5	7.1	6.6	6.5
National Aeronautics & Space Administration	3,170.8	3,333.3	3,578.4	3,234.1	3,593.2	3,077.9	2,661.6	2,821.9	3,327.2	3,419.8	3,787.1
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.5	1.0	1.1
National Science Foundation	697.0	748.8	807.9	881.8	961.6	975.3	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5
Nuclear Regulatory Commission	112.3	133.9	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5
Office of Personnel Management	NA	4.5	6.0	6.8	8.4	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Smithsonian Institution	29.7	34.9	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5
Tennessee Valley Authority	26.5	31.5	38.4	80.1	68.9	85.0	63.0	68.1	79.5	77.5	77.9
United States Arms Control & Disarmament Agency	2.2	3.6	3.5	3.8	2.4	1.9	1.0	1.3	1.1	.9	3.6
US Information Agency[14]	.1	.1	.1	.1	1.5	.1	-	1.4	.1	2.0	3.5
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 4

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	56,769.4	61,406.5	63,559.5	61,295.2	65,592.6	67,314.0	67,257.0	68,736.4	67,662.6	69,972.9	69,838.4
Departments:											
Dept of Agriculture, total	1,016.6	1,038.3	1,108.4	1,236.6	1,327.1	1,327.8	1,399.9	1,380.2	1,302.0	1,406.8	1,376.0
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.6	1.5	2.7	4.2	4.7	4.7	4.8	4.8	4.9	4.8	4.8
Agricultural Research Svc[2]	505.7	523.5	545.5	591.0	627.1	627.2	678.7	683.3	675.2	687.1	696.8
Animal & Plant Health Inspection Service	5.6	7.4	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.1	18.3
Cooperative State Rsch, Ed, & Extension Service[3]	298.4	307.3	324.2	376.8	418.2	418.6	429.0	417.7	362.4	448.8	406.4
Economic Research Service	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	55.1	57.3
Food Safety Inspection Svc	0	0	0	0	0	0	0	0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	0	0	0	0	0	0	1.1	.9	1.3	1.4	1.4
Forest Service	135.5	131.4	158.6	174.7	180.7	182.7	193.1	193.5	177.9	179.8	179.8
Grain Inspection Packers & Stockyards Administration[5]	1.0	1.1	.6	.7	1.5	1.8	1.8	1.5	2.5	2.8	2.8
Human Nutrition Information Service[2]	8.2	8.4	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA
National Agricultural Statistics Service	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.9	4.0
Office of International Cooperation & Dvlpmnt[4]	5.0	2.5	3.6	3.1	1.5	1.5	0	NA	NA	NA	NA
Office of Transportation	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	388.9	397.9	438.2	489.6	651.2	656.3	826.1	1,136.0	1,067.5	1,044.8	1,035.9
Bureau of the Census	5.7	4.9	6.9	6.6	5.3	5.4	4.8	4.9	6.3	4.9	4.9
Economic Development Admin	4.2	1.0	1.2	1.4	.5	.0	.6	.5	.6	.6	.6
National Institute of Standards & Technology	107.9	115.5	122.3	140.0	179.0	207.2	253.2	563.3	516.5	481.7	486.9
National Oceanic & Atmospheric Administration	263.0	268.6	300.1	338.0	462.4	439.5	562.6	560.9	528.5	543.7	524.7
National Telecommunications & Information Administration	8.1	7.8	7.7	3.6	4.0	4.2	4.8	6.4	15.7	14.0	18.8
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	-	-	-	-
Department of Defense, total	35,248.9	37,576.9	37,268.1	32,134.8	36,129.5	35,849.1	34,574.8	34,345.9	34,494.9	34,918.2	34,030.4
Department of the Army	4,806.0	5,659.3	5,684.1	6,081.5	6,854.2	6,209.1	5,574.1	5,419.3	4,873.6	4,929.3	4,580.4
Department of the Navy	9,514.1	9,666.1	9,586.2	7,806.0	8,030.8	9,102.9	8,929.0	8,963.3	8,606.4	8,184.6	7,824.5
Department of the Air Force	14,867.3	15,237.4	14,831.4	10,937.5	13,427.1	12,635.3	12,527.4	11,797.9	13,042.1	13,917.4	14,412.9
Defense Agencies, total	5,832.9	6,858.9	6,945.2	7,072.5	7,571.7	7,647.0	7,301.3	7,912.8	7,693.3	7,623.4	6,919.5
Operational Test & Evaluation, Director	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	25.0	23.5
Test & Evaluation, Deputy Under Secretary of Defense	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	238.4	269.7
Department of Education	140.7	159.1	169.9	171.0	168.5	177.7	176.6	177.6	173.7	190.1	225.5
Department of Energy	5,036.4	5,192.6	5,630.6	5,983.1	6,172.2	6,262.1	6,048.0	6,145.0	5,344.9	5,687.2	5,636.3

See explanatory information, if any, and SOURCE at end of table

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Page 2 of 4

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	7,158.0	7,902.8	8,405.6	9,756.0	8,987.8	10,349.2	11,021.5	11,455.2	11,953.1	12,763.7	13,127.4
Administration on Aging[7]	NA	NA	NA	20.6	20.2	20.9	19.1	20.7	3.7	4.4	4.4
Administration for Children & Families[8] [7]	NA	NA	NA	129.0	39.2	19.9	11.3	12.0	12.6	21.2	31.3
Agency for Health Care Policy & Research[9]	NA	NA	49.7	101.1	106.3	114.8	154.4	135.3	125.2	143.6	149.0
Alcohol, Drug Abuse, & Mental Health Administration[10]	554.8	695.7	842.7	1,460.6	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	170.3	181.6
Health Care Financing Admin	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	44.0	45.0
Hlth Resources & Svcs Admin	10.0	10.5	11.9	11.0	10.1	9.6	16.4	13.2	11.1	11.3	9.4
Human Development Svcs[7]	54.0	101.7	95.4	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	6,290.9	6,778.3	7,136.5	7,695.5	8,409.2	9,765.1	10,329.4	10,681.8	11,251.0	11,983.3	12,318.5
Office of the Assistant Secretary for Health[9]	21.0	27.2	6.9	10.0	6.7	1.2	.8	.3	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	12.7	20.4	10.1
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	9.0	18.5	9.0
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	NA	NA	3.7	1.9	1.1
Social Security Admin[11]	14.7	15.8	13.9	11.9	33.0	24.5	22.2	20.4	NA	NA	NA
Substance Abuse & Mental Health Services Admin	NA	NA	NA	NA	NA	NA	NA	NA	16.7	19.4	19.6
Dept of Housing & Urban Dvlpmt	18.4	18.0	19.3	27.8	25.1	23.6	39.6	41.8	33.1	36.2	39.5
Dept of the Interior, total	416.8	469.0	508.5	592.9	609.2	619.1	694.1	561.6	567.5	576.2	595.6
Bureau of Land Management	3.7	3.0	2.8	8.8	6.3	8.9	.0	.0	.0	.0	.0
Bureau of Mines[12]	91.3	98.7	99.3	106.1	107.1	111.9	107.9	.0	NA	NA	NA
Bureau of Reclamation	4.4	4.2	5.8	8.7	13.2	10.3	7.4	8.0	6.5	7.6	7.8
Geological Survey[13]	236.1	279.9	308.4	356.6	361.4	356.7	371.1	362.0	518.9	524.0	539.0
Minerals Management Service	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	21.3	22.9
National Biological Service[14] [13]	NA	NA	NA	NA	NA	.0	162.8	151.8	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	23.3	25.9
Office of the Secretary[15]	.4	.4	.2	.6	.9	.4	.1	-	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.7	1.0	.3	.5	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	59.2	60.6	69.4	81.0	85.1	86.5	.0	.0	.0	.0	.0
Department of Justice, total	43.1	38.2	40.5	48.9	48.0	48.9	45.0	57.9	77.3	89.5	85.2
Bureau of Prisons[16]	6.0	5.1	4.5	5.2	5.9	6.1	5.4	5.7	5.2	4.8	4.9
Drug Enforcement Admin	2.5	2.7	2.4	2.7	1.4	.9	.9	.4	1.2	.5	.5
Federal Bureau of Investigation	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.9	35.9
Immigration & Naturalization Service	.3	.1	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	21.5	22.5	25.0	29.8	29.4	30.2	31.4	40.5	37.2	48.0	43.4
Department of Labor, total	35.6	35.4	73.0	44.0	51.7	55.0	59.7	55.4	52.4	40.6	38.0
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	14.9	15.7	53.4	22.1	31.7	35.9	40.0	25.6	26.9	18.8	16.6
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	3.9	4.1
Office of the Secretary	6.1	6.1	7.1	8.7	5.9	5.8	5.3	6.3	2.6	2.3	1.9
Pension Benefit Guaranty Corp	.3	.3	.5	.5	.9	1.3	1.3	.8	.7	.7	.7
Pension & Welfare Benefits Administration	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	4.2	4.7	4.7	5.9	5.6	5.3	.4	.5	.9	.8	.8

See explanatory information, if any, and SOURCE at end of table.

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	304.6	303.3	366.6	379.9	445.0	545.3	620.7	727.0	552.5	651.2	666.1
Coast Guard	21.1	17.9	20.2	25.5	20.1	32.9	22.3	19.7	20.0	25.0	19.7
Federal Aviation Admin	160.5	146.8	216.1	220.1	236.2	248.9	285.6	288.4	208.3	245.6	228.7
Federal Highway Admin	74.1	91.0	91.5	86.9	130.2	174.9	235.7	312.5	240.0	288.9	326.9
Federal Railroad Admin	10.0	9.0	10.2	15.9	22.7	25.2	19.5	26.5	26.7	19.7	20.8
Federal Transit Admin[18]	2.3	1.4	1.6	1.7	1.7	24.3	19.9	28.7	13.7	19.9	15.7
Maritime Administration[19]	.5	.0	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0
National Highway Traffic Safety Administration	28.3	29.7	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.5	42.0
Office of the Secretary	5.7	5.5	6.8	4.3	4.1	4.5	5.4	3.9	2.8	2.7	4.3
Rsch & Special Programs Administration	2.1	2.0	2.4	2.4	2.5	1.3	5.3	5.0	7.7	12.9	8.0
Dept of the Treasury, total	26.1	25.6	25.6	30.8	24.6	16.6	19.0	61.4	60.0	58.6	52.9
Bureau of Engraving & Printing	2.0	1.7	2.1	3.5	2.0	3.2	1.7	1.8	1.7	1.6	1.9
Financial Crimes Enforcement Network	.0	.0	.0	2.3	1.2	1.5	0	.0	.0	.0	.0
Internal Revenue Svc[20 21]	14.4	14.4	16.8	17.9	17.9	6.5	11.3	49.7	51.2	48.7	41.1
Off of Thrift Supervision[22]	NA	NA	.0	3.0	.8	.7	.5	.6	.5	.6	.6
United States Customs Svc	9.2	6.8	6.2	3.7	2.2	4.0	4.5	8.5	6.2	6.1	8.8
United States Mint	.1	2.0	.1	.1	.0	.1	.5	.3	.0	1.1	.0
US Secret Service[23]	.4	.6	.5	.4	.5	.6	.5	.5	.5	.6	.6
Department of Veterans Affairs	215.3	234.7	237.7	216.6	223.9	236.2	248.0	237.9	256.1	276.0	240.3
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	.8	.4	.7	1.9	.9	.9	.9	.9	.9	.9
Consumer Product Safety Comm	1.1	1.3	1.1	1.3	1.1	1.2	.3	.4	-	.0	.2
Environmental Protection Agcy	347.4	380.3	419.7	432.6	483.9	495.3	553.5	551.5	464.3	504.0	553.9
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	.4	.4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	204.4	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	169.0	225.0
Agency for International Development[17 24]	204.4	279.1	334.6	377.7	365.9	382.2	254.3	302.5	223.0	169.0	225.0
Library of Congress	7.1	8.0	8.4	9.0	10.3	10.5	10.0	10.2	10.6	9.9	11.7
National Aeronautics & Space Administration	4,330.4	5,393.5	6,533.2	7,280.2	7,657.6	8,019.9	8,296.2	9,014.9	8,570.1	8,993.6	9,272.0
Nat'l Archives & Records Admin	.7	.3	.4	.7	.7	.3	.3	.1	.1	.1	.1
National Science Foundation	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,257.5	2,346.9
Nuclear Regulatory Commission	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	57.0	53.9
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	129.0	132.0
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table.

Table C-96a. Federal obligations for research and development, by agency: fiscal years 1988-98

[Dollars in millions]

Page 4 of 4

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	87.3	62.6	64.9	68.3	97.3	108.6	97.9	93.1	52.6	62.7	44.0
United States Arms Control & Disarmament Agency[25]	3.4	2.8	.2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.0
US Information Agency	.4	.1	.5	.1	.0	1.1	.6	.3	.1	.1	.1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-97. Federal obligations for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

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Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	1,367.2	1,295.7	1,475.5	1,555.7	1,485.7	1,389.8	1,297.5	1,787.3	1,820.8	1,538.8	1,846.0
Departments:											
Dept of Agriculture, total	12.9	24.7	22.6	56.9	20.8	21.5	33.9	39.2	40.6	79.4	111.8
Agricultural Research Svc	NA	NA	NA	NA	17.6	21.1	23.4	28.8	29.0	69.2	43.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	.0	.0	10.0	10.0	10.0	9.5	67.6
Forest Service	1.8	2.7	3.5	3.6	3.2	.4	.5	.4	1.6	.6	.3
Science & Ed Admin, total	11.1	22.0	19.1	53.2	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	11.1	22.0	19.1	53.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	7.1	4.1	2.4	4.6	1.3	1.0	.7	9.4	4.2	9.3	5.2
Maritime Administration[1]	4.9	1.0	.9	.5	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	.7	.8	1.5	.3	.5	1.0	.7	9.4	4.2	7.7	2.0
National Oceanic & Atmospheric Administration	1.5	2.3	.0	3.9	.8	.0	.0	.0	.0	1.5	3.2
Department of Defense, total	445.6	232.6	270.2	208.2	277.7	290.5	312.5	529.2	530.9	286.1	477.2
Department of the Army	16.3	7.6	3.8	13.8	12.8	24.7	26.3	56.2	52.9	53.9	65.8
Department of the Navy	61.2	48.3	68.1	83.2	97.9	155.9	141.7	173.4	182.1	97.6	69.0
Department of the Air Force	350.0	160.1	167.5	108.0	159.6	84.7	138.7	285.4	291.3	130.1	270.3
Defense Agencies, total	18.1	16.6	30.8	3.2	7.4	25.2	5.8	14.2	4.6	4.5	72.1
Department of Education	NA	NA	.0	.0	.0	.0	.0	.0	1.1	6.6	21.0
Department of Energy[2,3]	561.0	690.7	844.4	1,024.1	978.2	914.0	757.7	852.4	868.4	742.3	772.2
Department of Health, Education, & Welfare, total	132.6	74.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	.8	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	131.8	73.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	53.5	30.6	23.7	24.7	47.9	31.1	42.1	37.9	36.7
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	.1	.0	.2	3.3	1.8	.3	.4	.5	.6
Food & Drug Administration	NA	NA	5.8	1.2	1.2	2.0	28.5	3.0	13.0	8.0	.8
National Insts of Health	NA	NA	47.6	29.4	22.3	19.4	17.5	27.8	28.8	29.4	35.3
Dept of the Interior, total	5.0	15.0	5.0	7.5	3.5	1.3	2.4	5.2	4.2	4.3	11.8
Bonneville Power Admin[3]	.0	.0	.0	.0	.3	NA	NA	NA	NA	NA	NA
Bureau of Mines	3.4	7.1	.3	1.0	.6	.1	.1	-	.0	.0	.0
Geological Survey[4]	.0	.0	.0	.0	.0	.0	1.4	1.0	.8	.8	.8
National Park Service	-	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
Office of Water Rsch & Tech[4]	.9	.6	.7	.7	.8	.9	.0	.0	NA	NA	NA
US Fish & Wildlife Svc	.6	7.3	4.0	5.5	1.8	.3	.9	4.2	3.4	3.5	11.0
Department of Justice, total	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1
Federal Bureau of Investigation	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1

See explanatory information, if any, and SOURCE at end of table.

Table C-97. Federal obligations for R&D plant, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 2

Agency and subdivision	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of State, total[5]	16.2	0.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
Agcy for Internat'l Dvlpmt[5]	16.2	.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dept of Transportation, total	22.5	14.1	22.6	23.3	18.9	11.9	21.9	16.9	9.0	12.1	11.2
Coast Guard	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Aviation Admin	3.0	1.0	9.9	5.7	8.9	5.1	21.4	16.4	8.5	10.9	10.4
Federal Highway Admin	.4	.4	.6	7.2	-	.0	.0	.0	.0	.7	.3
Federal Railroad Admin	16.6	11.8	11.9	10.2	9.5	6.3	.0	.0	.0	.0	.0
Federal Transit Admin	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Highway Traffic Safety Administration	.2	.2	.2	.2	.5	.5	.5	.5	.5	.5	.5
Dept of the Treasury, total	.1	-	-	-	.1	.1	.1	.1	.1	.1	.1
United States Customs Svc	.1	-	-	-	.1	.1	.1	.1	.1	.1	.1
United States Secret Service	NA	NA	NA	.0	.0	.0	.0	.0	.0	.1	-
Department of Veterans Affairs	5.9	4.1	5.1	4.4	14.8	2.8	10.5	6.1	3.3	4.8	5.9
Other agencies:											
Consumer Product Safety Comm	.0	.3	2.7	2.7	.0	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	2.1	4.6	2.4	.0	.0	.0	.0	.0	.0	.0	.0
General Services Admin[6]	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.8	.0
International Development Cooperation Agency, total[5]	NA	NA	6.4	6.3	8.0	6.0	4.8	7.8	6.9	7.5	6.8
Agcy for Internat'l Dvlpmt[5]	NA	NA	6.4	6.3	8.0	6.0	4.8	7.8	6.9	7.5	6.8
National Aeronautics & Space Administration	118.1	162.3	147.5	159.1	115.8	113.7	100.8	244.2	234.3	275.0	309.4
National Science Foundation	27.1	39.7	30.2	18.7	14.6	1.5	3.2	45.2	73.6	53.2	61.3
Nuclear Regulatory Commission	7.1	6.9	8.6	7.7	7.7	.0	.0	.0	.0	.0	.0
Smithsonian Institution	.2	.2	1.0	.9	.4	.5	1.0	.2	1.6	.7	2.9
Tennessee Valley Authority	3.7	21.9	50.8	.6	.4	.3	.3	.2	.5	.8	.3
United States Arms Control & Disarmament Agency	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0

[1] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[2] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[3] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[4] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[5] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[6] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-97a. Federal obligations for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 2

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	2,057.1	2,165.1	2,271.7	2,852.8	2,984.6	3,100.7	2,171.2	2,260.9	1,746.1	2,023.3	1,754.3
Departments:											
Dept of Agriculture, total	135.2	89.2	102.2	144.6	164.7	142.4	125.7	143.4	128.4	155.2	99.8
Agricultural Research Svc[1]	55.5	55.2	44.4	64.7	98.1	78.3	78.3	67.7	67.9	87.6	97.8
Animal & Plant Health Inspection Service	.5	.3	6.1	.0	.0	.0	.0	.0	1.5	.0	0
Cooperative State Rsch, Ed, & Extension Service[2]	76.2	32.2	46.9	61.5	63.0	60.5	42.6	71.3	56.5	65.6	0
Forest Service	2.9	1.6	4.9	18.4	3.6	3.6	4.9	4.3	2.5	2.0	2.0
Department of Commerce, total	11.2	9.1	15.4	15.7	21.0	25.4	31.2	77.7	84.5	30.1	23.4
National Institute of Standards & Technology	10.7	8.6	8.8	8.5	11.2	12.6	30.9	77.2	84.5	30.1	23.4
National Oceanic & Atmospheric Administration	5	.5	6.6	7.3	9.9	12.8	.3	.5	.0	.0	.0
Department of Defense, total	435.8	499.3	487.3	425.7	396.5	371.5	221.5	65.2	46.8	77.7	87.0
Department of the Army	92.8	45.1	53.1	91.0	22.0	18.1	2.1	5.5	6.2	4.0	4.4
Department of the Navy	74.9	89.6	60.4	54.0	96.0	45.5	76.1	11.3	8.0	38.2	41.7
Department of the Air Force	143.7	250.2	322.2	152.3	179.7	231.6	99.3	37.8	24.4	33.6	38.1
Defense Agencies, total	124.4	114.4	51.6	128.4	98.8	76.3	44.0	10.7	8.3	1.8	2.8
Department of Education	5.2	1.9	8.9	4.2	2.4	2.2	1.8	1.8	.0	2.0	2.0
Department of Energy	915.0	873.0	916.0	1,220.1	1,320.8	1,461.5	911.8	745.1	705.9	747.2	813.0
Department of Health & Human Services, total	19.5	78.6	107.8	86.3	96.7	149.3	120.2	255.7	133.1	372.9	196.5
Food & Drug Administration	.5	23.0	23.0	18.4	14.3	19.7	8.4	5.3	5.5	3.4	6.5
Hlth Resources & Svcs Admin	.0	.0	.0	.0	.3	1.4	1.4	1.6	.7	.7	.0
National Insts of Health[3]	19.0	55.6	84.8	67.8	82.1	128.2	110.5	248.8	126.9	368.8	190.0
Social Security Admin[4]	.0	.0	.0	-	.0	.0	.0	.0	NA	NA	NA
Dept of the Interior, total	9.4	10.8	14.0	22.2	18.4	23.1	9.0	6.7	1.9	7.0	2.2
Bureau of Mines[5]	.0	2.6	3.0	2.1	.0	.0	.0	.0	NA	NA	NA
Geological Survey[6]	8	1.3	1.3	3.3	4.3	3.8	6.4	5.4	1.2	5.0	1.2
Minerals Management Service	.0	.0	.2	.3	1.0	1.1	1.2	1.0	.8	2.0	1.0
National Biological Service[7, 6]	NA	NA	NA	NA	NA	.0	1.4	.3	NA	NA	NA
US Fish & Wildlife Svc[7]	8.6	6.9	9.5	16.6	13.1	18.3	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-97a. Federal obligations for R&D plant, by agency: fiscal years 1988-98

[Dollars in millions]

Page 2 of 2

Agency and subdivision	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	13.9	15.5	21.8	18.4	25.3	32.3	40.9	28.8	31.8	22.1	18.0
Coast Guard	.3	.0	.4	.4	.4	.5	.5	.5	.5	.5	.5
Federal Aviation Admin	13.2	15.5	21.4	16.3	24.0	22.4	33.0	21.7	20.6	17.2	14.3
Federal Highway Admin	.0	.0	.0	.0	.8	.9	6.3	3.0	7.3	1.0	2.3
Federal Railroad Admin	.4	.0	.0	1.7	.1	1.6	1.1	3.5	3.4	3.4	.9
Federal Transit Admin[8]	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	.1	.1	.1	.1	.1	.2	.2	.2	.2	.2	.2
United States Customs Svc	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
US Secret Service[9]	-	-	-	-	-	-	-	-	-	-	-
Department of Veterans Affairs	19.5	11.0	3.3	3.4	5.7	3.4	11.7	7.2	3.8	16.4	8.3
Other agencies:											
Environmental Protection Agcy	.0	.0	0	.0	.0	2.5	4.8	4.8	.0	.0	.0
General Services Admin	.0	.0	18.8	22.6	6.5	1.0	.3	5.1	.1	.1	.0
International Development Cooperation Agency, total	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Agency for International Development[10 11]	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Aeronautics & Space Administration	428.2	519.5	527.0	723.6	817.8	749.4	515.3	624.8	417.4	421.2	326.8
National Science Foundation	56.9	53.6	39.3	159.6	101.6	130.4	171.9	289.6	187.2	166.8	172.3
Smithsonian Institution	.7	3.4	4.8	1.5	3.8	5.0	5.0	5.0	5.0	4.5	5.0
Tennessee Valley Authority	.4	.2	4.9	4.8	3.2	1.0	.0	.0	.0	.0	.0

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[1] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[2] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[3] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[4] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[5] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[6] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[7] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[8] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[9] The United States Secret Service was formerly listed as the Office of Protective Research.

[10] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[11] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-98. Federal obligations for research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 1 of 4

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5
Departments:											
Dept of Agriculture, total	524.0	594.5	631.9	657.4	741.0	766.5	817.6	834.9	910.9	896.4	918.9
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7
Agricultural Marketing Svc[1]	.0	.0	.4	1.0	.9	1.0	1.1	1.2	1.3	1.3	1.2
Agricultural Research Svc	NA	NA	NA	NA	367.9	379.1	417.9	424.3	442.0	436.0	454.6
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
Cooperative State Rsch. Ed. & Extension Service	NA	NA	NA	NA	199.4	219.0	232.3	235.7	284.3	269.0	270.7
Economic Research Service	NA	NA	NA	NA	39.3	39.3	38.8	43.7	46.4	44.6	44.8
Economics, Statistics, & Cooperative Service[2]	29.7	32.7	35.5	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	31.1	NA	NA	NA	NA	NA	NA	NA
Forest Service	86.1	100.7	102.5	106.1	119.9	107.7	103.9	105.1	109.8	109.7	122.9
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.8	.6	.7
Human Nutrition Information Service	NA	NA	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	7.0	7.6	8.2	8.4	8.0	3.4
Office of International Cooperation & Development	NA	NA	.0	4.9	3.6	2.4	4.8	7.5	7.3	6.6	5.3
Office of Transportation	NA	NA	.0	.0	.8	.8	.8	.9	1.1	.9	.9
Science & Ed Admin, total	408.2	461.1	493.5	512.8	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	281.0	303.7	320.9	328.6	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	127.3	157.4	172.6	184.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	176.1	192.8	219.5	254.4	249.4	276.1	284.8	296.7	324.2	339.5	338.6
Bureau of the Census	2.0	2.3	1.8	1.9	3.0	1.9	2.2	2.4	2.5	2.6	2.8
Economic Development Admin	2.5	5.9	8.5	2.5	1.8	1.6	5.3	5.1	2.0	2.3	5.0
Maritime Administration[4]	3.7	7.0	12.2	12.1	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[5]	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	45.0	48.5	51.8	58.9	66.2	73.9	81.5	83.7	86.5	89.1	89.4
National Oceanic & Atmospheric Administration	115.8	127.9	142.7	168.8	168.5	188.5	188.9	197.7	224.4	237.5	234.4
National Telecommunications & Information Administration	2.0	1.1	2.4	9.6	9.9	10.1	6.9	7.7	7.9	7.6	7.0
Office of the Secretary	.0	.0	.1	.5	.0	-	-	-	.9	.3	-
Department of Defense, total	1,715.8	1,824.1	2,014.1	2,261.8	2,600.9	2,952.8	3,222.6	3,048.5	3,168.3	3,227.3	3,347.6
Department of the Army	398.0	409.8	448.6	479.3	536.5	639.2	693.6	708.8	823.4	827.3	909.9
Department of the Navy	497.4	526.3	567.3	611.1	698.0	778.7	827.0	765.4	791.3	784.3	786.7
Department of the Air Force	425.8	448.7	492.3	537.3	617.3	633.9	688.4	740.1	736.7	759.0	784.8
Defense Agencies, total	393.4	431.7	505.9	634.1	749.1	901.0	1,013.6	834.3	816.9	856.7	866.1
Defense Civil Preparedness Agency[6]	1.3	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-98. Federal obligations for research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 4

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	93.4	87.6	.0	70.5	76.1	80.9	91.9	95.8	106.9
Department of Energy[7] [8]	891.3	1,102.2	1,131.8	1,277.3	1,413.6	1,696.1	1,961.1	2,024.9	2,141.0	2,040.3	2,097.9
Department of Health, Education, & Welfare, total	2,414.3	2,740.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	152.0	178.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	55.3	60.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	42.9	64.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	7.4	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	9.5	10.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	27.1	34.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	1,968.7	2,232.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.0	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	28.6	32.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	11.9	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	48.7	45.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	20.0	30.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	11.2	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	3,015.7	3,332.8	3,492.2	3,605.6	4,020.8	4,466.0	5,028.3	5,189.6	6,021.9
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	213.5	233.5	237.7	246.1	300.4	336.0	376.4	394.9	473.3
Centers for Disease Control & Prevention	NA	NA	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2
Food & Drug Administration	NA	NA	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0
Health Care Financing Admin	NA	NA	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3
Health Resources Admin	NA	NA	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	6.7	11.0	16.2	18.2	12.3	9.3
Health Services Admin	NA	NA	10.2	8.0	10.2	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	14.9	19.1	39.9	8.7	6.9	4.5	5.8	6.8	9.4
National Insts of Health	NA	NA	2,530.1	2,787.5	2,948.3	3,124.5	3,478.2	3,910.4	4,428.1	4,587.6	5,314.7
Office of the Assistant Secretary for Health	NA	NA	29.9	25.7	28.8	13.9	16.6	18.1	16.9	15.8	18.9
Office of the Secretary	NA	NA	24.7	24.0	19.5	13.1	14.4	10.0	9.4	6.1	8.2
Social Security Admin	NA	NA	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8
Dept of Housing & Urban Dvlpmt	32.7	30.5	23.8	19.6	16.7	10.3	11.3	6.3	6.5	5.3	5.5
Dept of the Interior, total	255.9	283.5	339.5	354.4	369.8	351.5	357.7	380.2	369.3	367.9	382.1
Bonneville Power Admin[8]	.0	.0	.0	.0	6.5	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.8	1.0	1.1	1.3	1.5	2.4	2.0	1.8	2.8	2.1	2.1
Bureau of Mines	52.3	57.0	79.1	82.8	68.0	81.1	79.4	97.2	86.5	81.6	85.2
Bureau of Reclamation	9.3	10.6	11.4	12.9	13.4	9.0	8.8	9.0	11.2	9.7	10.2
Geological Survey[9]	117.5	133.7	145.1	145.8	169.3	152.1	154.7	204.0	210.5	211.2	216.5
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0
National Park Service	7.5	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	4.5	1.7	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0
Office of Surface Mining Reclamation & Enforcement	.0	2.2	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	12.3	15.4	17.8	18.4	15.8	10.1	1.2	3.6	NA	NA	NA
US Fish & Wildlife Svc	51.7	54.2	69.6	75.2	77.8	83.6	87.5	48.3	37.9	41.7	47.6
Department of Justice, total	17.6	45.7	28.8	28.8	19.5	16.3	20.7	17.9	19.3	22.3	19.8
Bureau of Prisons	.1	.7	.5	.9	1.7	.9	1.3	1.2	1.1	2.7	2.2
Drug Enforcement Admin	.9	.5	.7	.8	.4	1.3	.9	.7	.5	.8	.7
Immigration & Naturalization Service	.1	.2	.1	.2	.1	.3	.3	.3	.2	2	2
Office of Justice Programs	16.4	43.3	25.9	25.6	16.7	13.4	18.0	15.7	17.2	18.5	16.7
Office of Legal Policy	.0	1.1	1.6	1.3	.7	.4	.2	.0	.3	.2	.1

See explanatory information, if any, and SOURCE at end of table.

Table C-98. Federal obligations for research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 3 of 4

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	18.7	25.7	42.1	36.4	58.2	17.2	17.9	16.3	12.4	9.5	20.4
Bureau of Labor Statistics	.9	.8	.9	.9	.3	.3	.7	.5	.6	.6	6.5
Employment Standards Admin	4.4	3.7	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0
Employment & Training Admin	6.4	14.9	25.9	20.1	48.8	8.7	7.9	6.1	3.5	3.5	5.4
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	.3	.3	.2	.3
Labor-Management Services Administration[10]	3.3	2.8	3.2	2.8	1.8	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.4	1.1	.9	1.5	1.9	1.7	1.3	1.8
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.1	.3	.3	.3	.2	.1	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0
Department of State, total[11]	38.3	49.1	2.7	2.0	1.6	1.5	1.5	1.6	1.5	1.5	3.0
Agcy for Internat'l Dvlpmt[11]	36.2	46.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.1	2.5	2.7	2.0	1.6	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	51.8	66.5	67.0	82.4	88.6	66.7	72.6	77.7	71.2	68.2	68.8
Coast Guard	2.5	2.3	10.9	8.1	15.0	1.7	1.2	7.2	5.4	3.5	3.7
Federal Aviation Admin	4.7	6.8	7.5	8.2	8.2	7.0	12.5	15.0	17.3	14.0	11.1
Federal Highway Admin	5.3	4.9	4.4	4.6	5.1	5.3	7.3	6.1	6.3	14.7	20.7
Federal Railroad Admin	6.6	9.2	7.5	7.9	6.2	3.1	2.8	12.3	11.4	12.5	10.4
Federal Transit Admin	1.0	1.1	1.1	8.9	9.3	19.4	18.3	1.0	.5	.0	.0
Maritime Administration[4]	NA	NA	NA	NA	9.5	6.6	6.2	8.6	8.0	6.8	3.3
National Highway Traffic Safety Administration	27.5	38.0	30.0	38.6	29.4	21.3	21.4	24.7	20.9	16.1	18.9
Office of the Secretary	4.2	4.1	.6	.6	.7	.3	.3	.9	.9	.4	.4
Rsch & Special Programs Administration	.0	.1	5.0	5.5	5.2	2.1	2.6	1.8	.5	.3	.2
Dept of the Treasury, total	2.1	4.1	4.7	5.7	5.2	8.1	10.2	10.6	18.3	17.7	17.4
Bureau of Alcohol, Tobacco, & Firearms	.4	.4	.7	.3	.1	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	1.7	1.9	.6	1.3	.9	2.8	2.0	2.2	3.4	3.1	2.8
Internal Revenue Service	.0	1.8	3.5	3.9	4.2	5.3	7.9	8.1	14.7	14.0	14.1
United States Customs Svc	.0	.0	.0	.1	.1	-	.0	.1	.1	.2	.2
United States Secret Service	NA	NA	NA	.0	.0	.0	.3	.1	.2	.4	.2
Department of Veterans Affairs	92.3	99.4	111.4	117.9	127.7	123.0	146.1	171.9	209.1	169.9	190.3
Other agencies:											
ACTION	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9
Appalachian Regional Comm	.6	.3	.7	.6	.3	.3	.2	.4	.2	.2	.1
Civil Service Commission	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	1.0	2.0	1.8	1.3	1.9	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	3.7	.9	1.8	1.6	.2	.1	.3	1.1	1.4	1.1	.6
Environmental Protection Agcy	205.3	252.7	259.0	245.1	218.3	243.4	174.6	172.0	214.6	217.8	277.2
Federal Communications Comm	2.0	2.4	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0
Federal Emergency Management Agency, total[6] [5]	NA	4.8	9.7	9.3	9.1	9.2	3.3	6.1	2.9	.0	.0
National Fire Prevention & Control Administration[5]	NA	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	1.1	1.4	1.5	3.0	1.1	1.2	1.4	1.6	1.7	1.8	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	53.8	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.4	2.2	.2	.1	.4	.5	.2	.4	.4	.9	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-98. Federal obligations for research, by agency: fiscal years 1977-87

[Dollars in millions]

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Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	66.9	79.7	86.4	127.9	156.7	167.0	159.8	184.9	154.0
Agcy for Internat'l Dvlpmt[11]	NA	NA	66.9	79.7	86.4	127.9	156.7	167.0	159.8	184.9	154.0
Interstate Commerce Comm	0.1	0.3	.2	.1	0	0	0	0	.0	.0	.0
Library of Congress	.4	.5	.6	.6	.9	.9	1.3	2.1	2.1	1.6	1.5
National Aeronautics & Space Administration	1,206.1	1,345.2	1,451.2	1,609.6	1,407.2	1,407.1	1,544.8	1,709.2	1,783.6	2,069.0	2,269.2
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.2	.0	.7
National Science Foundation	688.3	743.5	800.0	873.7	955.5	973.2	1,062.0	1,202.8	1,345.6	1,353.3	1,470.5
Nuclear Regulatory Commission	112.3	133.9	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5
Office of Personnel Management	NA	1.0	1.4	2.6	3.4	.0	.0	.0	0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	.0	.0	.0	.0	.0	.0	0	.0	.0	.0
Smithsonian Institution	29.7	34.9	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5
Tennessee Valley Authority	22.9	13.5	16.5	15.8	14.2	12.7	12.3	14.3	14.4	17.8	17.7
United States Arms Control & Disarmament Agency	1.8	2.5	2.7	3.0	1.6	1.3	.8	1.2	1.1	.9	.4
US Information Agency[14]	.1	.1	.1	.1	1.1	.0	-	1.4	.1	1.6	.0
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-98a. Federal obligations for research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,432.8	28,563.9	8,265.1	29,485.2	30,218.6
Departments:											
Dept of Agriculture, total	985.2	1,002.2	1,061.3	1,175.5	1,261.0	1,251.7	1,322.5	1,298.8	1,221.6	1,317.7	1,286.9
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.3	1.3	2.2	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.2
Agricultural Research Svc[2]	479.4	492.1	512.3	550.8	583.2	574.3	624.4	628.6	621.2	625.3	634.1
Animal & Plant Health Inspection Service	5.6	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
Cooperative State Rsch. Ed. & Extension Service[3]	298.4	307.3	324.2	376.8	418.2	418.6	429.0	-417.7	362.4	448.8	406.4
Economic Research Service	48.1	49.5	50.5	54.4	58.9	58.9	55.2	53.8	53.0	55.1	57.3
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	1.1	.9	1.3	1.4	1.4
Forest Service	131.5	127.5	153.8	170.2	175.8	177.2	189.8	187.7	172.3	174.5	174.5
Grain Inspection Packers & Stockyards Administration[5]	.6	.8	.2	.7	1.5	1.8	1.8	.3	.5	.6	.6
Human Nutrition Information Service[2]	8.2	8.4	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA
National Agricultural Statistics Service	3.6	2.9	2.8	3.2	3.6	3.9	3.9	4.0	3.8	3.9	4.0
Office of International Cooperation & Dvlpmnt[4]	4.8	2.3	3.4	3.0	1.5	1.5	.0	NA	NA	NA	NA
Office of Transportation	.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	342.3	351.0	377.0	449.7	595.9	582.1	718.3	892.3	850.6	853.9	853.5
Bureau of the Census	3.8	3.0	4.9	4.8	3.4	3.3	2.8	2.9	2.5	3.3	3.3
Economic Development Admin	4.2	1.0	1.2	1.4	.5	.0	.6	.5	.6	.6	.6
National Institute of Standards & Technology	98.9	105.6	111.8	124.3	149.4	172.9	207.3	372.1	354.8	343.1	344.3
National Oceanic & Atmospheric Administration	228.2	234.6	252.4	315.6	438.7	401.7	502.7	510.4	480.8	496.4	491.7
National Telecommunications & Information Administration	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9	10.5	13.6
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	-	-	-	-
Department of Defense, total	3,239.1	3,656.1	3,529.2	3,717.9	4,073.4	4,783.5	4,262.2	4,333.9	3,995.5	3,897.3	3,907.8
Department of the Army	753.7	823.4	780.2	860.5	932.7	1,018.6	852.6	852.1	670.4	727.2	705.2
Department of the Navy	747.8	783.2	807.6	874.0	892.8	996.1	847.1	880.0	893.5	912.8	873.3
Department of the Air Force	773.1	807.4	776.3	830.4	790.5	887.8	814.3	834.5	882.3	862.7	824.2
Defense Agencies, total	964.5	1,242.1	1,165.1	1,153.0	1,457.3	1,881.0	1,748.2	1,767.5	1,549.3	1,394.5	1,505.1
Department of Education	111.0	122.0	130.3	131.7	127.0	133.6	136.8	138.4	135.5	147.1	169.2
Department of Energy	2,235.4	2,431.7	2,570.5	3,273.6	3,412.5	3,440.2	3,282.5	3,459.9	3,362.2	3,498.1	3,676.1

See explanatory information, if any, and SOURCE at end of table.

Table C-98a. Federal obligations for research, by agency: fiscal years 1988-98

[Dollars in millions]

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Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	6,497.0	7,088.4	7,467.1	8,162.5	7,945.5	9,192.6	9,736.4	10,076.0	10,545.9	11,275.9	11,540.4
Administration on Aging[7]	NA	NA	NA	2.9	2.5	2.7	3.5	3.0	.2	.5	.1
Administration for Children & Families[8] [7]	NA	NA	NA	13.5	34.3	18.5	10.4	11.2	12.6	21.2	31.3
Agency for Health Care Policy & Research[9]	NA	NA	44.2	93.0	97.8	105.6	142.0	124.0	116.0	133.9	139.2
Alcohol, Drug Abuse, & Mental Health Administration[10]	552.4	692.6	801.2	923.0	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	170.3	181.6
Health Care Financing Admin	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	44.0	45.0
Hlth Resources & Svcs Admin	10.0	10.5	11.9	11.0	10.1	9.6	10.6	12.2	11.1	11.3	9.4
Human Development Svcs[7]	7.1	8.5	7.7	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	5,680.7	6,061.8	6,335.8	6,783.0	7,398.7	8,638.5	9,079.7	9,333.6	9,876.9	10,530.4	10,766.2
Office of the Assistant Secretary for Health[9]	19.4	25.6	5.8	9.6	6.0	.0	.0	.0	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.5	9.0
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	9.0	18.5	9.0
Social Security Admin[11]	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	NA	NA	NA
Dept of Housing & Urban Dvlpmt	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2	12.8	14.1
Dept of the Interior, total	392.5	441.9	475.2	553.4	570.6	580.1	650.2	532.4	542.1	548.8	567.6
Bureau of Land Management	2.2	2.0	2.1	5.9	5.9	8.0	.0	.0	.0	.6	.0
Bureau of Mines[12]	86.2	93.2	89.9	99.0	102.9	105.0	95.4	.0	NA	NA	NA
Bureau of Reclamation	3.7	3.5	5.3	7.8	10.7	7.4	5.5	6.0	4.9	5.7	5.9
Geological Survey[13]	225.3	266.9	293.2	338.4	344.5	343.9	355.4	347.9	495.1	498.4	512.9
Minerals Management Service	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	21.3	22.9
National Biological Service[14] [13]	NA	NA	NA	NA	NA	.0	149.0	138.8	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	38.1	24.2	19.7	20.2	23.3	25.9
Office of the Secretary[15]	.1	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.7	1.0	.3	.5	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	53.5	53.9	62.0	71.0	71.2	71.2	.0	.0	.0	.0	.0
Department of Justice, total	17.4	17.5	19.9	21.1	20.3	25.6	25.9	25.8	32.0	34.6	41.6
Bureau of Prisons[16]	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1	2.5	2.6
Drug Enforcement Admin	.6	.5	.4	.9	.1	-	.1	.0	-	.1	.1
Immigration & Naturalization Service	.3	.1	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	14.4	14.8	17.3	17.9	17.3	22.7	23.3	22.2	28.7	31.6	38.5
Department of Labor, total	26.7	22.2	21.6	24.3	23.8	19.0	19.6	29.9	26.7	22.1	22.0
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	6.9	7.1	14.8	13.3	12.6	12.4
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	6.8	6.1	6.0	6.6	5.6	3.5	3.1	4.2	2.6	1.9	2.0
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	3.9	4.1
Office of the Secretary	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8	1.2	1.1
Pension Benefit Guaranty Corp	.3	.3	.3	.4	.8	.7	.3	.1	.1	.1	.1
Pension & Welfare Benefits Administration	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	4.2	4.7	4.7	5.9	5.6	5.3	.4	.5	.9	.8	.8

See explanatory information, if any, and SOURCE at end of table.

Table C-98a. Federal obligations for research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 3 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	91.2	120.5	119.2	114.6	156.9	226.1	273.4	370.7	378.0	445.5	448.0
Coast Guard	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0	6.2	4.9
Federal Aviation Admin	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6	163.5	131.0
Federal Highway Admin	43.7	56.6	57.6	46.1	73.2	91.7	134.2	203.1	173.9	201.4	225.0
Federal Railroad Admin	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3	19.0	20.1
Federal Transit Admin[18]	0	0	0	0	.0	10.9	7.8	10.9	5.6	5.7	15.0
Maritime Administration[19]	.5	0	.9	1.7	1.8	1.7	1.7	2.5	.0	0	.0
National Highway Traffic Safety Administration	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.5	42.0
Office of the Secretary	.7	1.3	1.7	.6	.7	.6	.6	.6	2.8	2.7	4.3
Rsch & Special Programs Administration	.4	.7	2.4	1.4	1.4	.5	2.6	3.2	5.6	10.4	5.7
Dept of the Treasury, total	15.9	16.3	18.7	24.1	20.8	11.1	9.2	48.9	50.5	48.2	41.1
Bureau of Engraving & Printing	1.2	1.4	1.4	2.7	1.8	3.2	1.6	1.3	1.6	1.6	1.8
Internal Revenue Svc[20,21]	13.7	14.1	16.5	17.5	17.5	6.5	6.1	45.8	47.5	45.1	37.5
Off of Thrift Supervision[22]	NA	NA	0	3.0	.8	.7	.5	.6	.5	.6	.6
United States Customs Svc	.7	.4	.4	.5	.2	.1	.5	.7	.5	.4	.6
US Secret Service[23]	.4	.4	.5	.4	.5	.6	.5	.5	.5	.6	.6
Department of Veterans Affairs	196.1	213.7	215.6	193.8	200.9	207.4	223.5	218.8	235.3	253.6	220.8
Other agencies											
Advisory Commission on Intergovernmental Relations	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	.8	.4	.7	1.9	.9	.9	.9	.9	.9	.9
Consumer Product Safety Comm	.1	.5	.4	.9	.8	.8	.1	.0	.0	.0	.2
Environmental Protection Agcy	267.9	273.3	315.2	353.1	404.3	361.5	402.3	401.6	380.8	414.8	457.1
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	.4	.4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	135.1	219.1	305.2	357.4	300.1	359.2	216.2	272.7	205.0	156.0	208.0
Agency for International Development[17,24]	135.1	219.1	305.2	357.4	300.1	359.2	216.2	272.7	205.0	156.0	208.0
Library of Congress	1.6	1.6	1.5	1.7	1.8	1.8	1.9	2.1	2.2	2.1	2.3
National Aeronautics & Space Administration	2,331.6	2,878.8	3,060.7	3,371.2	3,229.3	3,548.7	3,840.6	4,046.1	3,878.0	4,053.8	4,176.7
Nat'l Archives & Records Admin	.5	.2	.3	.6	.6	.3	.3	.1	.1	.1	.1
National Science Foundation	1,532.8	1,670.4	1,689.5	1,785.2	1,868.4	1,881.9	2,040.4	2,149.3	2,188.3	2,257.5	2,346.9
Nuclear Regulatory Commission	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	57.0	53.9
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Smithsonian Institution	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	129.0	132.0
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table

Table C-98a. Federal obligations for research, by agency: fiscal years 1988-98

[Dollars in millions]

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Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	18.5	14.6	21.7	18.8	24.4	27.9	25.9	26.4	5.1	8.4	2.9
United States Arms Control & Disarmament Agency[25]	.8	1.2	.2	.4	2.1	1.5	1.3	1.1	.7	1.2	1.0
US Information Agency	.1	.0	.5	.1	.0	1.1	.6	.3	.1	.1	.1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: – = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-99. Federal obligations for basic research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 1 of 3

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4
Departments:											
Dept of Agriculture, total	204.5	242.7	256.4	275.7	314.1	330.8	362.0	392.6	445.4	432.9	445.5
Agricultural Research Svc	NA	NA	NA	NA	186.4	192.9	215.3	240.6	250.2	247.7	253.4
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	83.9	91.3	98.8	99.6	141.5	131.7	132.8
Economic Research Service	NA	NA	NA	NA	3.6	3.9	3.9	4.4	4.6	4.5	6.3
Economics, Statistics, & Cooperative Service[1]	3.8	3.9	6.4	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[2]	NA	NA	NA	6.6	NA	NA	NA	NA	NA	NA	NA
Forest Service	26.7	30.8	31.4	33.7	38.1	38.7	38.8	41.2	44.1	42.2	49.4
National Agricultural Statistics Service	NA	NA	NA	NA	0	2.3	2.5	2.7	2.8	2.6	1.1
Office of International Cooperation & Development	NA	NA	.0	2.3	1.7	1.1	2.3	3.6	1.5	3.7	1.9
Office of Transportation	NA	NA	.0	.0	.5	.5	.5	.6	.6	.5	.5
Science & Ed Admin, total	174.0	207.9	218.6	233.0	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	125.6	142.4	148.2	157.8	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	48.4	65.6	70.5	75.2	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	12.3	11.8	11.9	15.9	16.2	16.9	19.2	20.6	23.2	26.5	25.8
Bureau of the Census	.2	.5	.6	.5	.4	.3	.3	.4	.4	.5	.7
Economic Development Admin	1.0	2.7	.5	.3	.2	.0	.5	.0	.0	.0	.0
Maritime Administration[3]	1.2	2.7	2.0	2.0	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	.2	.0	.0	.0	0	.0	.0	.0	.0	0	.0
National Fire Prevention & Control Administration[4]	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	6.9	5.9	8.8	12.8	15.6	16.5	18.4	20.2	22.1	25.7	25.1
National Telecommunications & Information Administration	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	0	.0	.0	.3	.0	-	-	.0	.8	.3	.0
Department of Defense, total	373.3	410.4	471.5	540.3	604.3	686.7	785.6	847.9	861.4	923.9	907.6
Department of the Army	99.0	104.1	115.0	132.2	148.1	187.7	208.3	222.1	240.8	248.5	217.0
Department of the Navy	153.8	172.1	192.1	214.9	238.0	280.3	305.4	315.8	343.1	337.3	354.3
Department of the Air Force	84.8	95.1	105.0	108.2	125.8	145.8	164.2	192.4	198.3	216.5	221.6
Defense Agencies, total	35.6	39.1	59.3	85.1	92.4	72.9	107.7	117.6	79.2	121.7	114.8
Department of Education	NA	NA	20.6	17.6	.0	14.2	14.2	12.2	14.6	4.5	3.1
Department of Energy[5, 6]	389.5	440.5	463.0	523.1	586.3	642.2	767.7	830.4	942.6	959.7	1,068.5
Department of Health, Education, & Welfare, total	1,119.5	1,292.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	62.7	79.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	2.0	.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	11.9	18.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	1,032.8	1,181.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	4.0	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	2.2	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	4.0	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-99. Federal obligations for basic research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 3

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Health & Human Services, total	NA	NA	1,576.0	1,762.7	1,900.4	2,144.7	2,475.4	2,814.5	3,232.5	3,338.8	3,827.9
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	94.6	104.7	116.3	117.3	145.0	170.8	196.8	203.4	232.2
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	.6	.8	.8	.9	1.0	1.3
Health Services Admin	NA	NA	2.0	2.0	3.8	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	.0	.0	.4	.4	.0	.0	.0	.0	.0
National Insts of Health	NA	NA	1,463.7	1,642.3	1,766.8	2,020.7	2,313.0	2,624.8	3,018.0	3,118.6	3,575.5
Office of the Assistant Secretary for Health	NA	NA	13.6	11.6	12.4	5.7	16.6	18.1	16.9	15.8	18.9
Office of the Secretary	NA	NA	2.1	2.0	.6	.0	.0	.0	.0	.0	.0
Dept of the Interior, total	63.6	65.9	72.5	71.6	80.7	76.5	103.0	125.9	138.3	133.0	134.9
Bonneville Power Admin[6]	.0	.0	.0	.0	.4	NA	NA	NA	NA	NA	NA
Bureau of Mines	4.0	8.6	13.7	11.5	13.6	15.9	23.5	40.5	49.9	44.9	45.6
Bureau of Reclamation	.1	.2	.1	.2	.1	.1	.1	.1	.3	.1	.1
Geological Survey[7]	40.3	46.3	49.0	47.3	53.5	52.6	64.7	78.9	80.5	83.4	84.9
Office of the Secretary	3.2	1.7	1.4	2.2	1.5	.5	7.4	.1	1.9	1.0	.0
Office of Water Rsch & Tech[7]	2.9	4.6	4.6	6.6	7.6	3.3	.5	.4	NA	NA	NA
US Fish & Wildlife Svc	13.1	4.5	3.7	3.8	3.9	4.1	6.9	5.9	5.7	3.6	4.3
Department of Justice, total	5.1	14.7	7.9	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1
Office of Justice Programs	5.1	14.7	7.9	9.5	4.6	3.1	3.6	4.7	4.2	5.3	8.1
Department of Labor, total	.7	3.7	2.3	3.9	3.7	6.5	5.3	5.0	3.3	.9	1.4
Employment & Training Admin	.6	3.5	1.8	3.9	3.7	6.5	5.3	5.0	3.3	.9	1.4
Labor-Management Services Administration[8]	.1	.2	.5	.0	.0	.0	.0	NA	NA	NA	NA
Department of State, total[9]	.0	.0	-	.0	.0	.0	.0	.0	.0	.0	2.6
Departmental Funds	.0	.0	-	.0	.0	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	.0	.0	.0	.0	1.2	1.0	.9	3.5	1.1	.6	.2
Coast Guard	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0
Maritime Administration[3]	NA	NA	NA	NA	.7	1.0	.5	3.5	1.1	.6	.2
Rsch & Special Programs Administration	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
Dept of the Treasury, total	.0	.0	.2	1.7	2.3	2.2	3.5	4.0	4.8	5.1	4.7
Bureau of Engraving & Printing	.0	.0	.0	.0	.0	.0	.6	.8	.3	.4	.1
Internal Revenue Service	.0	.0	.2	1.7	2.3	2.2	2.9	3.2	4.4	4.5	4.4
United States Secret Service	NA	NA	NA	.0	.0	.0	.0	.0	.0	.2	.2
Department of Veterans Affairs	9.1	8.9	9.5	14.3	15.0	12.9	14.1	15.8	15.4	14.8	17.2
Other agencies:											
ACTION	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Civil Service Commission	.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
Environmental Protection Agcy	8.3	6.0	10.1	13.6	10.5	32.7	22.2	29.6	38.6	38.5	31.1
Federal Emergency Management Agency, total[10, 4]	NA	2.8	3.0	2.6	2.6	1.4	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[4]	NA	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
Federal Trade Commission	.4	.5	.4	1.5	.9	1.0	1.2	1.3	1.5	1.6	.0
Foundation for Educational Assistance[11]	NA	NA	NA	NA	20.6	NA	NA	NA	NA	NA	NA
General Services Admin[12]	.1	1.8	-	.0	.0	.0	.0	.1	.1	.0	.0

See explanatory information, if any, and SOURCE at end of table.

Table C-99. Federal obligations for basic research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 3 of 3

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[9]	NA	NA	.0	.0	.0	.0	4.1	3.0	1.7	4.3	2.8
Agcy for Internat'l Dvlpmt[9]	NA	NA	.0	.0	.0	.0	4.1	3.0	1.7	4.3	2.8
Library of Congress	0.1	0.1	0.1	0.1	0.2	0.1	3	6	6	4	4
National Aeronautics & Space Administration	413.8	479.7	512.8	559.1	531.1	535.7	617.0	754.5	750.9	916.7	1,013.7
Nat'l Archives & Records Administration[12]	NA	NA	NA	NA	NA	NA	NA	NA	1	0	5
National Science Foundation	624.9	678.0	733.3	815.2	896.6	916.1	999.1	1,132.3	1,261.8	1,275.2	1,371.2
Smithsonian Institution	29.7	34.9	36.9	41.0	44.9	52.4	56.0	63.6	71.1	63.3	71.5
Tennessee Valley Authority	3.5	3.8	4.1	4.6	4.8	4.6	5.6	5.1	5.5	7.3	3.9
US Information Agency[13]	.0	.0	.0	0	1	0	.0	.0	.0	.0	0

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[1] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[2] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[3] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[4] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[5] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[6] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[7] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[8] In 1984 the Labor-Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[9] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[10] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[11] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[12] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[13] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY: - = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998.

Table C-99a. Federal obligations for basic research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 2

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,545.1	13,892.8	14,462.4	14,958.7	15,204.7
Departments:											
Dept of Agriculture, total	480.6	484.9	519.2	557.6	595.2	615.9	606.3	595.0	550.0	600.2	593.5
Agricultural Marketing Svc[1]	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
Agricultural Research Svc[2]	271.1	282.7	294.0	309.7	326.1	341.0	366.5	369.0	364.6	364.2	369.3
Cooperative State Rsch, Ed. & Extension Service[3]	145.8	142.6	153.7	170.4	189.6	192.5	194.7	186.0	148.7	198.8	186.8
Economic Research Service	6.7	6.9	7.1	7.6	8.2	10.6	9.9	5.4	5.3	5.3	5.4
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	.7	.5	.9	.9	.9
Forest Service	51.6	50.0	60.3	66.6	68.9	69.4	33.3	32.9	29.3	29.7	29.7
National Agricultural Statistics Service	1.2	1.0	.9	1.1	1.2	1.3	1.3	1.3	1.2	1.3	1.3
Office of International Cooperation & Dvlpmnt[4]	3.6	1.7	2.6	2.2	1.2	1.2	.0	NA	NA	NA	NA
Office of Transportation	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	30.9	29.1	31.4	34.3	34.5	37.2	40.1	39.3	37.5	41.2	40.7
Bureau of the Census	1.3	1.2	2.8	2.4	.9	.4	.3	.3	.9	1.0	1.0
National Institute of Standards & Technology	26.3	27.9	28.6	31.9	33.6	36.5	39.8	38.9	36.7	40.2	39.7
National Oceanic & Atmospheric Administration	3.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
Department of Defense, total	876.9	947.9	947.6	994.2	1,098.9	1,268.2	1,222.3	1,264.1	1,137.9	1,029.4	1,116.7
Department of the Army	165.7	187.2	185.1	188.6	204.9	215.7	213.3	218.8	195.1	175.4	203.0
Department of the Navy	341.8	354.0	365.0	388.0	393.8	422.0	400.1	409.4	376.7	338.3	380.3
Department of the Air Force	196.4	202.8	197.0	209.2	205.8	218.7	242.4	206.8	227.9	211.3	225.4
Defense Agencies, total	173.0	203.9	200.5	208.3	294.4	411.8	366.5	429.1	338.2	304.5	307.9
Department of Education	4.4	4.4	4.9	8.6	7.5	5.3	5.5	5.5	3.5	3.1	5.3
Department of Energy	1,184.8	1,410.9	1,504.8	1,686.5	1,736.4	1,754.8	1,603.2	1,634.4	1,929.7	2,004.0	2,095.5
Department of Health & Human Services, total	4,081.4	4,388.0	4,649.0	5,050.1	5,058.7	5,696.7	5,884.0	6,061.1	6,504.6	6,940.1	7,004.5
Agency for Health Care Policy & Research[5]	NA	NA	.0	.0	.0	.0	.8	.0	.0	.0	.0
Alcohol, Drug Abuse, & Mental Health Administration[6]	265.8	308.0	386.2	459.1	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	1.1	1.2	1.2	1.5	1.3	1.1	.8	1.0	1.0	1.0	.0
National Insts of Health[6]	3,795.1	4,053.3	4,261.7	4,589.5	5,057.4	5,695.6	5,882.4	6,060.0	6,503.6	6,939.1	7,004.5
Office of the Assistant Secretary for Health[5]	19.4	25.6	.0	.0	.0	.0	.0	.0	NA	NA	NA
Dept of the Interior, total	126.5	188.9	205.4	229.3	230.9	230.3	83.2	55.2	56.0	56.4	64.8
Bureau of Land Management	.0	.0	.0	1.1	.6	.6	.0	.0	.0	.0	.0
Bureau of Mines[7]	32.1	43.9	40.6	42.8	43.7	44.6	25.4	.0	NA	NA	NA
Bureau of Reclamation	.1	-	.1	.1	.0	.0	.0	.0	.0	.0	.0
Geological Survey[8]	89.5	140.2	159.1	179.1	180.1	178.0	43.5	41.6	55.5	55.9	64.3
National Biological Service[9] [8]	NA	NA	NA	NA	NA	.0	13.7	13.0	NA	NA	NA
National Park Service[9]	.0	.0	.0	.0	.0	.6	.7	.5	.5	.5	.5
US Fish & Wildlife Svc[9]	4.8	4.8	5.6	6.2	6.4	6.4	.0	.0	.0	.0	.0
Department of Justice, total	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6	11.6	23.6
Office of Justice Programs	7.6	6.8	8.8	6.4	5.3	5.0	5.9	8.1	12.6	11.6	23.6
Department of Labor, total	.4	.3	.3	.3	.2	5.6	5.8	13.3	11.5	11.3	11.1
Bureau of Labor Statistics	.0	.0	.0	.0	.0	5.4	5.6	13.3	11.5	11.3	11.1
Employment & Training Admin	.4	.3	.3	.3	.2	.2	.2	.0	.0	.0	.0
Pension Benefit Guaranty Corp	.0	.0	.0	.0	-	.0	.0	.0	.0	.0	.0
Department of State, total[10]	3.1	3.4	3.5	4.6	4.9	4.8	.0	.0	.0	.0	.0

See explanatory information, if any, and SOURCE at end of table.

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Table C-99a. Federal obligations for basic research, by agency: fiscal years 1988-98

[Dollars in millions]

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Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	.0	.0	.0	.0	1.2	1.7	3.0	46.9	41.3	33.5	40.1
Federal Highway Admin	.0	.0	.0	.0	1.2	1.7	3.0	46.9	38.4	30.8	35.8
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	2.8	2.7	4.3
Dept of the Treasury, total	4.8	3.4	3.4	3.6	3.6	6.5	-	-	-	-	-
Bureau of Engraving & Printing	1	.5	.0	.0	.0	.0	-	-	-	-	-
Internal Revenue Svc[11] [12]	4.7	2.9	3.4	3.6	3.6	6.5	.0	.0	0	.0	0
US Secret Service[13]	.1	.0	.0	.0	.0	.0	.0	0	0	[illegible]	.0
Department of Veterans Affairs	17.3	16.6	16.2	16.1	15.7	13.3	14.4	12.4	12.5	13.5	11.7
Other agencies:											
Environmental Protection Agcy	27.2	50.7	73.6	91.2	110.4	89.1	101.4	70.3	51.7	52.8	53.9
International Development Cooperation Agency, total	3.0	3.1	5.0	5.7	5.8	8.4	1.8	2.3	2.0	4.0	6.0
Agency for International Development[10] [14]	3.0	3.1	5.0	5.7	5.8	8.4	1.8	2.3	2.0	4.0	6.0
Library of Congress	.4	.4	.3	.4	.4	.3	.4	.5	5	.5	.5
National Aeronautics & Space Administration	1,112.7	1,417.4	1,636.9	1,705.6	1,738.2	1,800.1	1,963.9	1,978.2	1,980.9	1,959.3	1,857.7
Nat'l Archives & Records Admin	.2	.1	.2	4	.5	.2	.2	.0	.0	.0	.0
National Science Foundation	1,433.2	1,562.6	1,586.3	1,676.2	1,741.5	1,743.8	1,870.7	1,973.3	2,002.9	2,067.9	2,146.9
Smithsonian Institution	75.1	80.2	84.0	98.0	98.0	102.0	124.2	124.0	127.0	129.0	132.0
Tennessee Valley Authority	3.2	2.9	4.7	1.9	2.1	9.9	8.9	9.0	.3	9	.2

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[6] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[7] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[8] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[9] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[10] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[11] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[12] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[13] The United States Secret Service was formerly listed as the Office of Protective Research.

[14] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-100. Federal obligations for applied research, by agency: fiscal years 1977-87

[Dollars in millions]

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Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1
Departments:											
Dept of Agriculture, total	319.6	351.8	375.5	381.8	426.9	435.7	455.5	442.2	465.6	463.5	473.4
Agricultural Cooperative Svc	NA	NA	NA	1.6	1.7	1.7	2.1	2.2	2.9	2.6	2.7
Agricultural Marketing Svc[1]	.0	.0	.4	1.0	.9	1.0	1.1	1.2	1.3	1.3	1.2
Agricultural Research Svc	NA	NA	NA	NA	181.5	186.2	202.6	183.7	191.8	188.3	201.1
Animal & Plant Health Inspection Service	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
Cooperative State Rsch, Ed, & Extension Service	NA	NA	NA	NA	115.5	127.7	133.5	136.2	142.8	137.4	138.0
Economic Research Service	NA	NA	NA	NA	35.8	35.3	34.9	39.3	41.7	40.1	38.5
Economics, Statistics, & Cooperative Service[2]	25.9	28.8	29.1	NA	NA	NA	NA	NA	NA	NA	NA
Economics & Statistics Svc[3]	NA	NA	NA	24.5	NA	NA	NA	NA	NA	NA	NA
Forest Service	59.4	69.8	71.1	72.3	81.8	69.0	65.1	63.9	65.7	67.5	73.5
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.8	.6	.7
Human Nutrition Information Service	NA	NA	NA	NA	.0	8.5	8.2	6.0	6.7	12.8	6.8
National Agricultural Statistics Service	NA	NA	NA	NA	7.5	4.7	5.1	5.5	5.6	5.4	2.3
Office of International Cooperation & Development	NA	NA	.0	2.6	1.9	1.2	2.5	3.9	5.8	2.9	3.3
Office of Transportation	NA	NA	.0	.0	.3	.3	.3	.3	.5	4	.4
Science & Ed Admin, total	234.3	253.2	274.8	279.8	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	155.4	161.3	172.7	170.8	NA	NA	NA	NA	NA	NA	NA
Cooperative State Rsch Svc	78.9	91.9	102.1	109.0	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	163.8	181.0	207.6	238.5	233.2	259.2	265.6	276.1	301.0	312.9	312.8
Bureau of the Census	1.8	1.8	1.2	1.4	2.6	1.6	1.9	2.0	2.1	2.1	2.1
Economic Development Admin	1.5	3.2	8.0	2.2	1.6	1.6	4.8	5.1	2.0	2.3	5.0
Maritime Administration[4]	2.5	4.3	10.2	10.1	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	.5	.0	.0	.0	.0	.0	0	.0	.0	.0	0
National Fire Prevention & Control Administration[5]	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	38.0	42.6	43.0	46.1	50.6	57.4	63.1	63.5	64.5	63.5	64.3
National Oceanic & Atmospheric Administration	115.8	127.9	142.7	168.8	168.5	188.5	188.9	197.7	224.4	237.5	234.4
National Telecommunications & Information Administration	1.9	1.1	2.4	9.6	9.9	10.1	6.9	7.7	7.9	7.6	7.0
Office of the Secretary	.0	.0	.1	.2	.0	.0	.0	-	.1	.0	-
Department of Defense, total	1,342.6	1,413.6	1,542.6	1,721.4	1,996.6	2,266.1	2,437.0	2,200.7	2,306.9	2,303.3	2,440.0
Department of the Army	299.0	305.7	333.6	347.1	388.4	451.6	485.3	486.7	582.6	578.8	692.9
Department of the Navy	343.6	354.2	375.2	396.2	460.0	498.4	521.6	449.6	448.2	447.1	432.5
Department of the Air Force	341.0	353.6	387.2	429.1	491.5	488.1	524.2	547.7	538.4	542.5	563.2
Defense Agencies, total	357.8	392.5	446.6	549.1	656.7	828.1	905.9	716.6	737.7	735.0	751.3
Defense Civil Preparedness Agency[6]	1.3	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-100. Federal obligations for applied research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 2 of 4

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Education	NA	NA	72.8	70.0	.0	56.3	61.9	68.7	77.3	91.3	103.8
Department of Energy[7][8]	501.8	661.7	668.9	754.2	827.3	1,053.9	1,193.4	1,194.5	1,198.4	1,080.7	1,029.4
Department of Health, Education, & Welfare, total	1,294.8	1,448.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	89.3	98.8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Center for Disease Control	55.3	60.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Food & Drug Administration	42.9	64.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Care Financing Admin	30.0	19.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	7.4	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	7.5	10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	15.2	16.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	935.9	1,051.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Assistant Secretary for Education	1.0	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	24.6	27.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	11.9	13.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	46.5	42.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Secretary	16.0	25.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin	11.2	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Health & Human Services, total	NA	NA	1,439.7	1,570.1	1,591.9	1,460.9	1,545.4	1,651.5	1,795.8	1,850.8	2,194.0
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	118.9	128.8	121.4	128.7	155.4	165.2	179.7	191.5	241.1
Centers for Disease Control & Prevention	NA	NA	76.3	87.3	74.8	75.0	78.2	46.3	47.6	52.2	66.2
Food & Drug Administration	NA	NA	61.0	75.4	71.4	73.0	74.2	77.8	82.1	79.4	85.0
Health Care Financing Admin	NA	NA	31.8	45.7	38.6	29.1	30.2	33.1	33.5	29.0	27.3
Health Resources Admin	NA	NA	4.9	5.1	5.0	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	6.1	10.2	15.4	17.3	11.2	8.0
Health Services Admin	NA	NA	8.2	6.0	6.4	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	14.9	19.1	39.5	8.3	6.9	4.5	5.8	6.8	9.4
National Insts of Health	NA	NA	1,066.4	1,145.1	1,181.5	1,103.8	1,165.2	1,285.6	1,410.1	1,469.0	1,739.1
Office of the Assistant Secretary for Health	NA	NA	16.3	14.1	16.3	8.2	.0	.0	.0	.0	0
Office of the Secretary	NA	NA	22.6	22.0	18.9	13.1	14.4	10.0	9.4	6.1	8.2
Social Security Admin	NA	NA	18.3	21.4	18.0	15.5	10.8	13.5	10.4	5.6	9.8
Dept of Housing & Urban Dvlpmt	32.7	30.5	23.8	19.6	16.7	10.3	11.3	6.3	6.5	5.3	5.5
Dept of the Interior, total	192.4	217.6	266.9	282.8	289.2	275.0	254.7	254.3	231.0	234.9	247.3
Bonneville Power Admin[8]	.0	.0	.0	.0	6.1	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.8	1.0	1.1	1.3	1.5	2.4	2.0	1.8	2.8	2.1	2.1
Bureau of Mines	48.3	48.4	65.4	71.3	54.4	65.2	55.9	56.7	36.7	36.6	39.6
Bureau of Reclamation	9.2	10.4	11.3	12.7	13.3	8.9	8.7	8.8	10.9	9.6	10.1
Geological Survey[9]	77.2	87.4	96.1	98.5	115.8	99.4	89.9	125.1	130.0	127.8	131.7
Heritage Conservation & Recreation Service	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Minerals Management Service	NA	NA	NA	NA	NA	.0	1.5	1.5	1.4	1.1	1.0
National Park Service	7.5	7.7	8.9	8.2	10.4	11.2	13.7	14.0	15.0	17.3	18.5
Office of the Secretary	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	.0	2.2	5.0	7.5	5.8	1.5	1.5	.8	2.0	2.3	1.0
Office of Water Rsch & Tech[9]	9.4	10.8	13.2	11.8	8.2	6.8	.8	3.2	NA	NA	NA
US Fish & Wildlife Svc	38.6	49.7	65.9	71.4	73.9	79.6	80.6	42.3	32.2	38.1	43.3
Department of Justice, total	12.5	31.0	20.9	19.2	14.9	13.2	17.1	13.2	15.1	17.0	11.8
Bureau of Prisons	.1	.7	.5	.9	1.7	.9	1.3	1.2	1.1	2.7	2.2
Drug Enforcement Admin	.9	.5	.7	.8	.4	1.3	.9	.7	.5	.8	.7
Immigration & Naturalization Service	.1	.2	.1	.2	.1	.3	.3	.3	.2	.2	.2
Office of Justice Programs	11.3	28.6	18.0	16.1	12.0	10.3	14.4	11.0	13.0	13.2	8.6
Office of Legal Policy	.0	1.1	1.6	1.3	.7	.4	.2	.0	.3	.2	1

See explanatory information, if any, and SOURCE at end of table.

Table C-100. Federal obligations for applied research, by agency: fiscal years 1977-87

[Dollars in millions]

Page 3 of 4

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Labor, total	18.0	22.0	39.8	32.6	54.5	10.6	12.7	11.2	9.1	8.7	19.0
Bureau of Labor Statistics	.9	.8	9	.9	.3	.3	.7	.5	.6	.6	6.5
Employment Standards Admin	4.4	3.7	5.3	4.9	3.2	1.4	1.4	.9	-	.0	1.0
Employment & Training Admin	5.8	11.4	24.2	16.2	45.1	2.1	2.6	1.0	.3	2.6	4.0
Labor-Management Relations & Cooperative Programs[10]	NA	NA	NA	NA	NA	NA	NA	.3	.3	.2	.3
Labor-Management Services Administration[10]	3.2	2.6	2.7	2.8	1.8	.7	.9	NA	NA	NA	NA
Occupational Safety & Health Administration	3.4	1.3	5.1	6.3	3.0	4.9	5.3	5.1	4.5	3.6	4.1
Office of the Secretary	.2	2.2	1.6	1.4	1.1	.9	1.5	1.9	1.7	1.3	1.8
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.1	.3	.3	.3	.2	.1	.3
Pension & Welfare Benefits Administration	NA	NA	NA	NA	NA	NA	NA	1.2	1.6	.3	1.0
Department of State, total[11]	38.3	49.1	2.6	2.0	1.6	1.5	1.5	1.6	1.5	1.5	3
Agcy for Internat'l Dvlpmt[11]	36.2	46.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	2.1	2.5	2.6	2.0	1.6	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	51.8	66.5	67.0	82.4	87.4	65.7	71.7	74.2	70.2	67.6	68.6
Coast Guard	2.5	2.3	10.9	8.1	14.7	1.7	.8	7.2	5.4	3.5	3.7
Federal Aviation Admin	4.7	6.8	7.5	8.2	8.2	7.0	12.5	15.0	17.3	14.0	11.1
Federal Highway Admin	5.3	4.9	4.4	4.6	5.1	5.3	7.3	6.1	6.3	14.7	20.7
Federal Railroad Admin	6.6	9.2	7.5	7.9	6.2	3.1	2.8	12.3	11.4	12.5	10.4
Federal Transit Admin	1.0	1.1	1.1	8.9	9.3	19.4	18.3	1.0	.5	.0	.0
Maritime Administration[4]	NA	NA	NA	NA	8.9	5.6	5.7	5.1	7.0	6.2	3.1
National Highway Traffic Safety Administration	27.5	38.0	30.0	38.6	29.4	21.3	21.4	24.7	20.9	16.1	18.9
Office of the Secretary	4.2	4.1	.6	.6	.7	.3	.3	.9	.9	4	4
Rsch & Special Programs Administration	.0	.1	5.0	5.5	4.9	2.1	2.6	1.8	.5	.3	.2
Dept of the Treasury, total	2.1	4.1	4.5	4.0	2.9	5.9	6.7	6.6	13.6	12.7	12.7
Bureau of Alcohol, Tobacco, & Firearms	.4	.4	.7	3	1	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	1.7	1.9	.6	1.3	9	2.8	1.4	1.4	3.1	2.7	2.7
Internal Revenue Service	0	1.8	3.3	2.2	1.8	3.1	5.0	4.9	10.2	9.5	9.7
United States Customs Svc	0	0	.0	.1	1	-	0	*	1	2	.2
United States Secret Service	NA	NA	NA	.0	0	.0	.3	1	2	2	.1
Department of Veterans Affairs	83.2	90.5	101.8	103.6	112.7	110.1	132.0	156.1	193.7	155.1	173.1
Other agencies:											
ACTION	-	2	.0	0	.0	.0	.0	.0	0	0	.0
Advisory Commission on Intergovernmental Relations	1.5	1.7	1.7	2.2	2.2	2.0	2.1	2.1	2.4	2.1	1.9
Appalachian Regional Comm	6	.3	7	6	.3	.3	2	.4	.2	.2	.1
Civil Service Commission	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	1.0	2.0	1.8	1.3	1.9	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	3.7	9	1.8	1.6	.2	.1	.3	1.1	1.4	1.1	.6
Environmental Protection Agcy	197.0	246.7	248.9	231.5	207.8	210.7	152.4	142.3	176.0	179.3	246.1
Federal Communications Comm	2.0	2.4	2.9	3.4	1.8	1.2	1.3	.9	1.2	.9	1.0
Federal Emergency Management Agency, total[6 5]	NA	1.9	6.7	6.7	6.4	7.8	3.3	6.1	2.9	0	.0
National Fire Prevention & Control Administration[5]	NA	1.9	0	0	0	.0	.0	.0	0	.0	0
Federal Trade Commission	.8	.9	1.1	1.5	.2	.2	.2	.2	.3	.3	.5
Foundation for Educational Assistance[12]	NA	NA	NA	NA	33.2	NA	NA	NA	NA	NA	NA
General Services Admin[13]	.3	.4	.1	.1	.4	5	.2	4	.3	9	1.6

See explanatory information, if any, and SOURCE at end of table.

Table C-100. Federal obligations for applied research, by agency: fiscal years 1977-87

[Dollars in millions]

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Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
International Development Cooperation Agency, total[11]	NA	NA	66.9	79.7	86.4	127.9	152.6	164.0	158.1	180.7	151.2
Agcy for Internat'l Dvlpmt[11]	NA	NA	66.9	79.7	86.4	127.9	152.6	164.0	158.1	180.7	151.2
Interstate Commerce Comm	0.1	0.3	.2	.1	.0	.0	.0	.0	.0	.0	.0
Library of Congress	.3	.4	.5	.5	.7	.7	1.0	1.5	1.5	1.1	1.1
National Aeronautics & Space Administration	792.3	865.4	938.4	1,050.5	876.0	871.4	927.8	954.7	1,032.7	1,152.3	1,255.5
Nat'l Archives & Records Administration[13]	NA	NA	NA	NA	NA	NA	NA	NA	.1	.0	.3
National Science Foundation	63.4	65.5	66.8	58.4	58.9	57.1	62.9	70.5	83.8	78.1	99.3
Nuclear Regulatory Commission	112.3	133.9	148.8	182.7	219.7	220.3	207.3	190.7	150.0	123.8	122.5
Office of Personnel Management	NA	1.0	1.4	2.6	3.4	.0	.0	.0	.0	.0	.0
Office of Thrift Supervision	1.7	1.0	.9	1.2	1.0	2.7	3.0	2.6	2.8	3.3	3.4
Small Business Administration	.5	0	0	0	0	.0	.0	.0	.0	.0	.0
Tennessee Valley Authority	19.3	9.7	12.4	11.2	9.4	8.1	6.7	9.2	8.9	10.5	13.8
United States Arms Control & Disarmament Agency	1.8	2.5	2.7	3.0	1.6	1.3	.8	1.2	1.1	.9	.4
US Information Agency[14]	.1	.1	.1	.1	1.0	.0	-	1.4	.1	1.6	.0
US Internat'l Trade Comm	2.6	3.1	3.4	2.1	3.4	3.8	4.7	5.0	5.8	6.9	7.2

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[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] Data reported for the Economics & Statistics Service include programs of the Economic Research Service and the Statistical Reporting Service for fiscal year 1980.

[4] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[5] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[6] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[7] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[8] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[9] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[10] In 1984 the Labor Management Services Administration was replaced by Labor-Management Relations & Cooperative Programs.

[11] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[12] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[13] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[14] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 1 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,677.1	13,802.7	14,526.5	15,013.9
Departments:											
Dept of Agriculture, total	504.6	517.3	542.1	617.9	665.8	635.8	716.2	703.8	671.7	717.5	693.4
Agricultural Cooperative Svc	2.7	2.8	2.7	2.8	3.4	2.9	3.7	NA	NA	NA	NA
Agricultural Marketing Svc[1]	1.3	1.3	1.7	3.7	4.1	4.1	4.2	4.2	4.2	4.2	4.2
Agricultural Research Svc[2]	208.2	209.4	218.2	241.1	257.1	233.3	257.9	259.6	256.6	261.1	264.8
Animal & Plant Health Inspection Service	5.6	7.4	.0	.0	.0	.0	.0	.0	.0	.0	0
Cooperative State Rsch. Ed. & Extension Service[3]	152.6	164.7	170.5	206.4	228.6	226.2	234.3	231.7	213.7	250.1	219.6
Economic Research Service	41.4	42.6	43.5	46.8	50.6	48.3	45.3	48.4	47.7	49.8	51.9
Food Safety Inspection Svc	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.7	3.2
Foreign Agricultural Svc[4]	.0	.0	.0	.0	.0	.0	.4	.4	.4	.5	.5
Forest Service	79.9	77.5	93.5	103.6	106.9	107.8	156.5	154.8	143.0	144.8	144.8
Grain Inspection Packers & Stockyards Administration[5]	.6	.8	.2	.7	1.5	1.8	1.8	.3	.5	.6	.6
Human Nutrition Information Service[2]	8.2	8.4	9.0	9.9	10.7	8.4	7.0	NA	NA	NA	NA
National Agricultural Statistics Service	2.4	1.9	1.9	2.2	2.4	2.6	2.6	2.7	2.5	2.6	2.7
Office of International Cooperation & Dvlpmnt[4]	1.2	.6	.9	.7	.4	.4	.0	NA	NA	NA	NA
Office of Transportation	.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rural Business-Cooperative Service[6]	NA	NA	NA	NA	NA	NA	2.4	1.6	1.4	1.2	1.2
Department of Commerce, total	311.5	321.9	345.6	415.4	561.4	544.9	678.2	853.1	813.1	812.7	812.8
Bureau of the Census	2.4	1.8	2.1	2.3	2.4	2.9	2.5	2.6	1.6	2.2	2.2
Economic Development Admin	4.2	1.0	1.2	1.4	.5	.0	.6	.5	.6	.6	.6
National Institute of Standards & Technology	72.6	77.6	83.2	92.5	115.3	136.4	167.5	333.1	318.2	302.9	304.6
National Oceanic & Atmospheric Administration	225.0	234.6	252.4	315.6	438.7	401.4	502.7	510.4	480.8	496.4	491.7
National Telecommunications & Information Administration	7.3	6.9	6.8	3.6	4.0	4.2	4.8	6.4	11.9	10.5	13.6
Office of the Secretary	.0	0	.0	.0	.0	0	.0	-	-	-	-
Department of Defense, total	2,362.2	2,708.2	2,581.6	2,723.8	2,974.5	3,515.2	3,040.0	3,069.8	2,857.6	2,867.9	2,791.1
Department of the Army	588.0	636.3	595.2	671.9	727.8	802.8	639.3	633.3	475.3	551.9	502.2
Department of the Navy	406.0	429.2	442.6	486.0	499.0	574.1	447.0	470.5	516.8	574.6	492.9
Department of the Air Force	576.7	604.6	579.3	621.2	584.7	669.1	571.9	627.7	654.4	651.5	598.8
Defense Agencies, total	791.5	1,038.1	964.6	944.7	1,162.9	1,469.2	1,381.7	1,338.3	1,211.1	1,090.0	1,197.2
Department of Education	106.6	117.5	125.3	123.1	119.5	128.3	131.2	132.8	132.1	143.9	163.9
Department of Energy	1,050.6	1,020.8	1,065.7	1,587.2	1,676.1	1,685.4	1,679.2	1,825.6	1,432.5	1,494.0	1,580.6

See explanatory information, if any, and SOURCE at end of table.

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 2 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Department of Health & Human Services, total	2,415.6	2,700.4	2,818.1	3,112.4	2,886.8	3,495.9	3,852.5	4,014.9	4,041.3	4,335.8	4,535.9
Administration on Aging[7]	NA	NA	NA	2.9	2.5	2.7	3.5	3.0	.2	.5	.1
Administration for Children & Families[8] [7]	NA	NA	NA	13.5	34.3	18.5	10.4	11.2	12.6	21.2	31.3
Agency for Health Care Policy & Research[9]	NA	NA	44.2	93.0	97.8	105.6	141.2	124.0	116.0	133.9	139.2
Alcohol, Drug Abuse, & Mental Health Administration[10]	286.6	384.7	415.0	463.9	NA	NA	NA	NA	NA	NA	NA
Centers for Disease Control & Prevention	88.7	117.8	95.6	113.4	146.9	162.5	206.8	317.4	296.7	345.7	358.5
Food & Drug Administration	91.0	99.0	99.0	125.0	135.7	154.5	169.4	170.5	170.8	170.3	181.6
Health Care Financing Admin	28.2	49.1	49.1	69.1	75.5	68.2	80.0	74.5	52.7	44.0	45.0
Hlth Resources & Svcs Admin	9.0	9.3	10.7	9.5	8.8	8.5	9.8	11.2	10.1	10.3	9.4
Human Development Svcs[7]	7.1	8.5	7.7	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[10]	1,885.6	2,008.5	2,074.1	2,193.5	2,341.3	2,942.9	3,197.4	3,273.6	3,373.3	3,591.3	3,761.8
Office of the Assistant Secretary for Health[9]	.0	.0	5.8	9.6	6.0	.0	.0	.0	NA	NA	NA
Off of the Secretary, total	4.7	7.8	5.0	8.8	5.0	8.0	11.7	9.1	9.0	18.5	9.0
Office of the Asst Secretary, Planning & Evaluation	NA	NA	NA	NA	NA	NA	NA	NA	9.0	18.5	9.0
Social Security Admin[11]	14.7	15.8	11.8	10.2	33.0	24.5	22.2	20.4	NA	NA	NA
Dept of Housing & Urban Dvlpmt	6.3	6.1	6.6	9.4	8.8	8.1	13.7	14.2	11.2	12.8	14.1
Dept of the Interior, total	266.0	253.0	269.8	324.1	339.7	349.8	566.9	477.3	486.0	492.4	502.7
Bureau of Land Management	2.2	2.0	2.1	4.8	5.3	7.4	.0	.0	.0	.0	.0
Bureau of Mines[12]	54.1	49.3	49.3	56.2	59.2	60.4	70.0	.0	NA	NA	NA
Bureau of Reclamation	3.6	3.5	5.2	7.7	10.7	7.4	5.5	6.0	4.9	5.7	5.9
Geological Survey[13]	135.8	126.8	134.2	159.3	164.3	165.9	311.9	306.2	439.5	442.5	448.5
Minerals Management Service	1.2	2.2	1.9	2.7	3.8	5.8	20.6	20.0	21.9	21.3	22.9
National Biological Service[14] [13]	NA	NA	NA	NA	NA	.0	135.4	125.8	NA	NA	NA
National Park Service[14]	19.4	19.4	20.1	27.5	31.1	37.5	23.6	19.2	19.7	22.8	25.4
Office of the Secretary[15]	.1	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0
Office of Surface Mining Reclamation & Enforcement	1.0	.7	.7	1.0	.3	.5	.0	.0	.0	.0	.0
US Fish & Wildlife Svc[14]	48.7	49.1	56.4	64.8	64.8	64.8	.0	.0	.0	.0	.0
Department of Justice, total	9.8	10.7	11.1	14.7	15.0	20.5	20.0	17.7	19.5	23.0	18.0
Bureau of Prisons[16]	2.1	2.1	1.8	1.9	2.5	2.5	2.1	3.2	3.1	2.5	2.6
Drug Enforcement Admin	.6	.5	.4	.9	.1	-	.1	.0	-	.1	.1
Immigration & Naturalization Service	.3	.1	.4	.4	.4	.4	.4	.4	.2	.4	.4
Office of Justice Programs	6.8	8.0	8.5	11.5	12.0	17.6	17.4	14.1	16.1	20.0	14.9
Department of Labor, total	26.4	21.8	21.3	24.0	23.6	13.4	13.7	16.6	15.2	10.8	10.9
Bureau of Labor Statistics	7.0	7.0	7.3	7.5	7.6	1.5	1.5	1.5	1.8	1.3	1.3
Employment Standards Admin	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	6.5	5.7	5.7	6.3	5.4	3.3	2.9	4.2	2.6	1.9	2.0
Labor-Management Relations & Cooperative Programs	.4	.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Occupational Safety & Health Administration	4.2	4.5	2.5	2.6	3.1	2.5	3.3	4.4	6.6	3.9	4.1
Office of the Secretary	5.2	2.5	3.3	4.7	4.1	2.9	3.1	2.9	1.8	1.2	1.1
Pension Benefit Guaranty Corp	.3	.3	.3	.4	.8	.7	.3	.1	.1	.1	.1
Pension & Welfare Benefits Administration	2.7	1.4	2.1	2.5	2.6	2.6	2.7	3.6	2.3	2.4	2.4
Department of State, total[17]	1.0	1.3	1.2	1.3	.7	.5	.4	.5	.9	.8	.8

See explanatory information, if any, and SOURCE at end of table.

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 3 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Transportation, total	91.2	120.5	119.2	114.6	155.7	224.4	270.4	323.9	336.7	412.0	407.9
Coast Guard	5.4	4.6	5.1	6.4	5.0	8.2	5.6	4.9	5.0	6.2	4.9
Federal Aviation Admin	13.3	23.6	26.1	24.0	30.1	59.8	79.5	83.3	130.6	163.5	131.0
Federal Highway Admin	43.7	56.6	57.6	46.1	72.0	90.1	131.2	156.3	135.4	170.6	189.1
Federal Railroad Admin	8.2	7.5	8.5	13.2	18.9	20.9	16.1	22.5	21.3	19.0	20.1
Federal Transit Admin[18]	.0	.0	.0	.0	.0	10.9	7.8	10.9	5.6	5.7	15.0
Maritime Administration[19]	.5	.0	.9	1.7	1.8	1.7	1.7	2.5	.0	.0	.0
National Highway Traffic Safety Administration	19.1	26.2	16.9	21.4	25.8	31.6	25.3	39.7	33.2	36.5	42.0
Office of the Secretary	.7	1.3	1.7	.6	.7	.6	.6	.6	.0	.0	.0
Rsch & Special Programs Administration	.4	.7	2.4	1.4	1.4	.5	2.6	3.2	5.6	10.4	5.7
Dept of the Treasury, total	11.1	13.0	15.3	20.6	17.2	4.6	9.2	48.9	50.4	48.2	41.1
Bureau of Engraving & Printing	1.1	.9	1.4	2.7	1.8	3.2	1.6	1.3	1.5	1.6	1.8
Internal Revenue Svc[20 21]	9.0	11.3	13.1	13.9	13.9	.0	6.1	45.8	47.5	45.1	37.5
Off of Thrift Supervision[22]	NA	NA	.0	3.0	.8	.7	.5	.6	.5	.6	.5
United States Customs Svc	.7	.4	.4	.5	.2	.1	.5	.7	.5	.4	.6
US Secret Service[23]	.3	.4	.5	.4	.5	.6	.5	.5	.5	.6	.6
Department of Veterans Affairs	178.8	197.1	199.4	177.7	185.2	194.1	209.1	206.4	222.8	240.1	209.1
Other agencies:											
Advisory Commission on Intergovernmental Relations	1.8	1.1	1.5	1.7	1.7	2.1	1.4	1.4	NA	NA	NA
Appalachian Regional Comm	.2	.8	.4	.7	1.9	.9	.9	.9	.9	.9	.9
Consumer Product Safety Comm	.1	.5	.4	.9	.8	.8	.1	.0	.0	.0	.2
Environmental Protection Agcy	240.7	222.6	241.6	261.9	293.9	272.4	301.0	331.3	329.1	362.0	403.2
Federal Communications Comm	1.2	1.1	1.3	1.4	1.6	1.6	1.7	2.3	2.8	3.4	3.2
Federal Trade Commission	.4	.4	.5	1.0	1.3	.9	.7	.6	.5	.5	.5
General Services Admin	2.3	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0
International Development Cooperation Agency, total	132.1	216.0	300.2	351.7	294.2	350.8	214.4	270.4	203.0	152.0	202.0
Agency for International Development[17 24]	132.1	216.0	300.2	351.7	294.2	350.8	214.4	270.4	203.0	152.0	202.0
Library of Congress	1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.6	1.7
National Aeronautics & Space Administration	1,218.9	1,461.4	1,423.8	1,665.6	1,491.1	1,748.6	1,876.7	2,067.9	1,897.1	2,094.5	2,319.0
Nat'l Archives & Records Admin	.3	.1	.1	.3	.1	.1	.1	.1	.1	.1	.1
National Science Foundation	99.6	107.8	103.3	109.0	126.9	138.1	169.7	176.0	185.4	189.6	200.1
Nuclear Regulatory Commission	108.5	114.8	108.8	108.8	119.0	119.8	90.7	88.2	70.9	57.0	53.9
Office of Thrift Supervision[22]	3.4	4.1	4.1	NA	NA	NA	NA	NA	NA	NA	NA
Social Security Admin[11]	NA	NA	NA	NA	NA	NA	NA	NA	11.5	38.3	37.1

See explanatory information, if any, and SOURCE at end of table.

Table C-100a. Federal obligations for applied research, by agency: fiscal years 1988-98

[Dollars in millions]

Page 4 of 4

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Tennessee Valley Authority	15.3	11.7	17.0	16.9	22.2	18.1	17.0	17.4	4.8	7.6	2.7
United States Arms Control & Disarmament Agency[25]	8	1.2	2	4	2.1	1.5	1.3	1.1	7	1.2	1.0
US Information Agency	1	0	5	1	0	1.1	6	3	1	1	1
US Internat'l Trade Comm	8.1	8.7	9.1	9.9	12.3	12.2	9.4	12.2	3.2	5.8	6.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Cooperative State Research Service merged with the Extension Service on Oct. 19, 1994, to become the Cooperative State Research, Education, and Extension Service, due to a reorganization within the Department of Agriculture.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[6] This agency's name changed from the Rural Business & Cooperative Development Service to the Rural Business-Cooperative Service on Jan. 30, 1996.

[7] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[8] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[9] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[10] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[11] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[12] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[13] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[14] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[15] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[16] The Bureau of Prisons was formerly listed as the Federal Prison System.

[17] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[18] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[19] Beginning with fiscal year 1996, the Maritime Administration has had no directly appropriated funding for research and development activities.

[20] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[21] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[22] In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision. In 1990 the Office of Thrift Supervision became part of the Department of the Treasury.

[23] The United States Secret Service was formerly listed as the Office of Protective Research.

[24] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[25] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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Table C-101. Federal obligations for development, by agency: fiscal years 1977-87

[Dollars in millions]

Page 1 of 3

Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all agencies	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2
Departments:											
Dept of Agriculture, total	22.9	26.8	31.1	30.2	33.0	30.8	30.0	31.3	32.0	32.1	29.0
Agricultural Marketing Svc[1]	.0	.0	.5	.3	.2	.2	.3	.3	.3	.3	.3
Agricultural Research Svc	NA	NA	NA	NA	26.2	25.8	25.5	27.0	27.7	27.4	24.0
Economics, Statistics, & Cooperative Service[2]	.8	.0	.0	NA	NA	NA	NA	NA	NA	NA	NA
Forest Service	4.2	5.0	5.0	5.5	6.2	4.5	3.8	3.3	3.3	3.6	3.8
Grain Inspection Packers & Stockyards Administration	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.5
Office of International Cooperation & Development	NA	NA	.0	.4	.3	.2	.4	.7	.4	.3	.3
Office of Transportation	NA	NA	.7	.8	.1	.1	.1	.1	.2	.1	.1
Science & Ed Admin, total	18.0	21.8	24.9	23.3	NA	NA	NA	NA	NA	NA	NA
Agricultural Research Svc	18.0	21.8	24.9	23.3	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	68.6	90.9	89.9	88.1	78.6	60.2	50.2	61.5	74.6	59.7	63.7
Bureau of the Census	.6	1.1	1.2	1.2	.9	1.9	2.1	2.1	2.4	2.1	1.9
Economic Development Admin	12.5	32.6	34.6	29.8	26.3	8.0	.0	.0	11.0	8.0	.0
Maritime Administration[3]	11.1	12.6	7.4	7.3	NA	NA	NA	NA	NA	NA	NA
Minority Business Dvlpmt Agcy	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
National Fire Prevention & Control Administration[4]	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards & Technology	8.3	9.8	16.0	17.3	16.3	14.9	13.6	11.8	14.0	11.6	9.3
National Oceanic & Atmospheric Administration	29.9	33.5	28.5	30.9	32.9	33.5	33.1	46.6	45.4	37.2	51.7
National Telecommunications & Information Administration	.9	.7	1.7	1.1	1.1	1.2	1.4	.9	1.2	.8	.8
Office of the Secretary	.0	.0	.0	-	.0	.0	-	.1	.6	.0	.0
Patent & Trademark Office	.5	.5	.5	.5	1.1	.7	.0	.0	.0	.0	.0
Department of Defense, total	9,247.5	9,729.6	10,492.1	11,719.2	13,907.7	17,669.8	19,770.1	22,324.3	26,623.2	29,710.7	31,884.0
Department of the Army	2,043.9	2,139.1	2,320.1	2,500.7	2,707.7	3,121.3	3,304.5	3,516.8	3,747.4	3,982.1	4,109.6
Department of the Navy	3,320.0	3,472.1	3,767.7	4,095.0	4,308.0	5,066.4	5,241.2	6,840.2	8,336.1	8,865.9	8,721.1
Department of the Air Force	3,605.3	3,813.6	4,033.4	4,673.7	6,351.9	8,724.0	10,124.2	11,351.5	12,524.3	12,834.8	14,562.9
Defense Agencies, total	248.0	276.2	341.7	411.9	499.1	717.1	1,038.7	557.3	1,964.8	3,910.7	4,353.5
Operational Test & Evaluation, Director	NA	NA	NA	NA	NA	NA	NA	NA	NA	.0	8.4
Test & Evaluation, Deputy Under Secretary of Defense	30.2	28.6	29.3	37.9	41.1	41.0	61.6	58.6	50.6	117.1	128.5
Department of Education	NA	NA	72.9	51.8	.0	57.5	35.6	34.8	33.0	25.5	25.6
Department of Energy[5] [6]	2,645.0	3,142.6	3,506.9	3,476.4	3,504.6	3,012.1	2,575.6	2,648.7	2,825.0	2,648.0	2,659.4
Department of Health, Education, & Welfare, total	409.0	466.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Alcohol, Drug Abuse, & Mental Health Administration	1.0	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Resources Admin	.0	.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Health Services Admin	8.1	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Inst of Education	37.8	54.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health	311.2	348.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of the Assistant Secretary for Health	3.6	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Education	19.2	19.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Office of Human Dvlpmt Svcs	28.1	30.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

See explanatory information, if any, and SOURCE at end of table.

Table C-101. Federal obligations for development, by agency: fiscal years 1977-87

[Dollars in millions]

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Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Department of Health & Human Services, total	NA	NA	489.2	447.4	434.9	335.2	331.7	364.7	422.7	468.0	584.3
Alcohol, Drug Abuse, & Mental Health Administration	NA	NA	.7	.0	1.8	2.1	1.8	1.2	1.1	1.2	2.2
Hlth Resources & Svcs Admin	NA	NA	NA	NA	NA	3.4	2.3	2.3	1.5	.0	.0
Health Services Admin	NA	NA	18.5	18.7	10.1	NA	NA	NA	NA	NA	NA
Human Development Services	NA	NA	42.2	30.1	33.8	18.5	16.6	13.8	18.5	47.8	43.6
National Insts of Health	NA	NA	423.0	394.4	384.9	308.7	311.0	347.0	399.6	417.5	536.2
Office of the Assistant Secretary for Health	NA	NA	4.7	4.2	4.3	2.2	.0	.0	1.7	1.5	2.3
Office of the Secretary	NA	NA	.0	.0	.0	.3	.0	4	.2	.0	.0
Dept of Housing & Urban Dvlpmt	19.4	39.2	44.1	36.4	31.4	18.5	20.8	11.9	12.0	10.1	10.8
Dept of the Interior, total	58.7	75.5	66.3	56.8	57.3	29.6	24.8	30.7	22.4	17.3	21.7
Bonneville Power Admin[6]	.0	.0	.0	.0	7.7	NA	NA	NA	NA	NA	NA
Bureau of Land Management	.1	.2	.2	.3	.4	2.9	1.9	2.0	1.6	1.3	1.6
Bureau of Mines	49.6	57.0	41.9	30.6	28.7	13.6	9.2	11.6	3.3	2.8	3.6
Bureau of Reclamation	.6	.6	.8	1.2	.9	1.1	1.2	1.4	2.0	.5	.5
Geological Survey[7]	.0	.0	.5	.5	.5	.5	2.3	4.9	4.4	7.4	10.3
National Park Service	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of Water Rsch & Tech[7]	2.8	12.0	9.4	10.9	5.3	1.3	1.0	.0	NA	NA	NA
US Fish & Wildlife Svc	5.4	5.7	13.5	13.4	13.7	10.3	9.2	10.8	11.1	5.3	5.7
Department of Justice, total	10.1	15.2	14.1	12.7	7.0	10.4	10.7	6.6	16.7	14.1	22.5
Bureau of Prisons	1.0	2.9	2.9	1.3	.9	.7	.4	.4	.4	.3	4.9
Drug Enforcement Admin	2.1	1.4	1.7	1.9	.9	1.9	1.6	1.2	1.1	1.7	1.5
Federal Bureau of Investigation	1.4	1.8	3.1	1.4	.7	2.7	2.5	1.0	9.5	7.2	8.0
Immigration & Naturalization Service	.1	2	.1	2	.1	.4	3	3	.2	2	2
Office of Justice Programs	5.4	8.3	6.3	7.5	4.4	4.6	5.8	3.8	5.5	4.7	7.9
Office of Legal Policy	.0	.6	-	.5	.1	-	.1	.0	0	0	0
Department of Labor, total	10.8	72.1	94.9	101.6	4.0	8.3	1.9	.0	.9	.9	1.2
Bureau of Labor Statistics	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
Employment & Training Admin	10.4	71.7	94.9	101.6	3.6	7.4	1.1	.0	.0	.0	.3
Office of the Secretary	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.9
Pension Benefit Guaranty Corp	NA	NA	NA	NA	.4	.8	.8	.0	.0	.0	.0
Department of State, total[8]	23.1	36.1	.5	.3	.2	.0	.0	.0	.0	.0	.0
Agcy for Internat'l Dvlpmt[8]	22.9	35.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Departmental Funds	.2	.4	.5	.3	.2	.0	.0	.0	.0	.0	.0
Dept of Transportation, total	302.8	341.8	303.1	278.8	327.0	243.4	275.1	370.6	357.6	317.3	256.2
Coast Guard	16.4	21.4	10.2	9.9	11.3	18.3	18.4	12.2	13.6	13.4	13.3
Federal Aviation Admin	98.7	103.7	103.0	94.9	111.8	87.3	113.7	251.2	269.0	246.6	156.2
Federal Highway Admin	50.2	46.8	48.5	46.5	46.1	35.0	43.1	40.3	42.6	30.8	56.0
Federal Railroad Admin	35.3	44.7	36.7	38.3	30.4	15.1	13.7	6.9	3.6	2.9	.8
Federal Transit Admin	58.9	68.5	56.9	45.5	68.9	42.0	38.6	19.1	9.7	8.2	12.6
Maritime Administration[3]	NA	NA	NA	NA	4.7	4.5	8.8	1.3	5.9	2.6	2.5
National Highway Traffic Safety Administration	19.5	28.3	26.6	24.9	36.5	34.1	30.6	32.2	7.2	6.3	9.0
Office of the Secretary	23.8	27.6	11.1	10.2	9.4	3.0	4.6	4.0	3.9	4.7	4.1
Rsch & Special Programs Administration	.0	.8	10.0	8.5	7.9	4.0	3.6	3.5	2.2	1.7	1.8
Dept of the Treasury, total	2.7	5.8	4.8	6.3	6.1	5.2	5.4	3.3	6.0	6.3	9.5
Bureau of Alcohol, Tobacco, & Firearms	.7	1.6	1.9	1.2	.2	NA	NA	NA	NA	NA	NA
Bureau of Engraving & Printing	.8	1.8	1.5	1.0	1.8	2.0	1.9	1.3	1.6	1.1	1.7
Internal Revenue Service	.0	.6	.1	.1	-	.1	.1	.2	1.3	.2	.4
United States Customs Svc	1.2	1.8	1.3	3.7	3.4	3.1	3.3	1.7	2.1	4.6	6.8
United States Mint	.0	.0	.0	.0	.0	.0	.0	.0	.6	.3	.2
United States Secret Service	NA	NA	NA	.4	.6	.0	-	.1	.5	-	.3
Department of Veterans Affairs	14.7	14.6	15.6	15.5	16.7	14.3	15.3	18.4	17.5	16.3	19.2

See explanatory information, if any, and SOURCE at end of table.

Table C-101. Federal obligations for development, by agency: fiscal years 1977-87

[Dollars in millions]

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Selected agency	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Other agencies:											
ACTION	.4	1.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0
Appalachian Regional Comm	.1	.1	.2	.2	.1	.1	.0	.1	.0	.0	.0
Civil Service Commission	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Community Services Admin	23.0	22.3	18.9	29.1	16.4	NA	NA	NA	NA	NA	NA
Consumer Product Safety Comm	3.0	2.9	2.1	1.9	.3	.1	.2	.2	1.0	.9	1.6
Environmental Protection Agcy	90.2	132.0	151.1	99.9	107.4	91.7	66.1	89.2	105.8	99.5	71.0
Federal Emergency Management Agency, total[9] [4]	NA	2.2	2.9	2.5	2.5	.0	.0	5.4	1.2	.0	.0
National Fire Prevention & Control Administration[4]	NA	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
Foundation for Educational Assistance[10]	NA	NA	NA	NA	51.1	NA	NA	NA	NA	NA	NA
General Services Admin[11]	.5	.5	.3	.1	.2	5	.3	2.0	.0	.3	.0
International Development Cooperation Agency, total[8]	NA	NA	39.6	69.7	47.8	72.0	70.6	70.3	60.5	66.2	63.5
Agcy for Internat'l Dvlpmt[8]	NA	NA	39.6	69.7	47.8	72.0	70.6	70.3	60.5	66.2	63.5
Library of Congress	3.4	4.4	5.3	6.3	4.0	4.9	6.0	5.4	5.0	5.0	5.0
National Aeronautics & Space Administration	1,964.7	1,988.1	2,127.2	1,624.4	2,186.0	1,670.7	1,116.8	1,112.7	1,543.6	1,350.8	1,517.8
Nat'l Archives & Records Administration[11]	NA	NA	NA	NA	NA	NA	NA	NA	.3	1.0	.4
National Science Foundation	8.7	5.3	7.9	8.1	6.1	2.2	.0	.0	.0	.0	.0
Office of Personnel Management	NA	3.5	4.6	4.2	5.0	.0	.0	.0	.0	.0	.0
Tennessee Valley Authority	3.6	18.0	21.9	64.3	54.7	72.3	50.7	53.8	65.1	59.8	60.2
United States Arms Control & Disarmament Agency	.4	1.2	.8	.8	.8	.6	.1	.2	.0	.1	3.2
US Information Agency[12]	-	-	-	-	.3	.1	.0	.0	.0	.4	3.5

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[1] Although the Agricultural Marketing Service was established in April 1972, fiscal year 1979 was the first year in which Congress appropriated funds to this agency.

[2] Data reported for the Economics, Statistics, & Cooperative Service include programs of the Economic Research Service, the Statistical Reporting Service, and the Farmer Cooperative Service for fiscal years 1977-79.

[3] In 1981 the Maritime Administration moved from the Department of Commerce to the Department of Transportation.

[4] Functions for the National Fire Prevention & Control Administration transferred from the Department of Commerce to the Federal Emergency Management Agency as of Apr. 1, 1979.

[5] In 1977 the Energy Research & Development Administration became part of the Department of Energy.

[6] In fiscal year 1982 the Bonneville Power Administration became part of the Department of Energy.

[7] As of 1985 the Office of Water Research & Technology has been combined with the Geological Survey.

[8] The Agency for International Development transferred from the Department of State to the International Development Cooperation Agency on Oct. 1, 1979.

[9] Functions for the Defense Civil Preparedness Agency transferred from the Department of Defense to the Federal Emergency Management Agency on July 20, 1979.

[10] The 1983 Budget of the United States Government proposed that the Department of Education be replaced by the Foundation for Educational Assistance.

[11] As of 1985 the National Archives & Records Administration is separate from the General Services Administration.

[12] Data reported for the United States Information Agency include funds for the former International Communication Agency for fiscal years 1977-81.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-101a. Federal obligations for development, by agency: fiscal years 1988-98

[Dollars in millions]

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Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all agencies	38,119.3	40,641.0	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	40,166.5	39,397.5	40,487.7	39,619.8
Departments											
Dept of Agriculture, total	31.4	36.1	47.1	61.2	66.1	76.1	77.4	81.4	80.3	89.1	89.1
Agricultural Marketing Svc[1]	.3	.3	.4	.5	.6	.6	.6	.6	.6	.6	.6
Agricultural Research Svc[2]	26.3	31.4	33.3	40.2	43.9	52.8	54.3	54.7	54.0	61.8	62.7
Animal & Plant Health Inspection Service	.0	.0	8.0	15.7	16.7	17.1	19.2	19.1	18.0	19.1	18.3
Forest Service	4.0	3.9	4.8	4.5	4.9	5.5	3.3	5.8	5.6	5.3	5.3
Grain Inspection Packers & Stockyards Administration[3]	.4	.3	.4	.1	.0	.0	.0	1.2	2.0	2.2	2.2
Office of International Cooperation & Dvlpmnt[4]	.2	.1	.2	.2	.0	.0	.0	NA	NA	NA	NA
Office of Transportation	.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Department of Commerce, total	46.6	46.9	61.2	39.9	55.3	74.2	107.8	243.7	216.9	190.9	182.3
Bureau of the Census	1.9	2.0	2.0	1.9	2.0	2.1	2.0	1.9	3.8	1.6	1.6
National Institute of Standards & Technology	9.1	10.0	10.5	15.6	29.6	34.3	45.9	191.2	161.6	138.6	142.6
National Oceanic & Atmospheric Administration	34.8	34.1	47.7	22.4	23.7	37.8	59.9	50.6	47.7	47.3	33.0
National Telecommunications & Information Administration	.8	.9	.9	.0	.0	.0	.0	.0	3.8	3.5	5.2
Department of Defense, total	32,009.7	33,920.8	33,738.9	28,416.9	32,056.1	31,065.7	30,312.6	30,012.0	30,499.4	31,020.8	30,122.7
Department of the Army	4,052.3	4,835.9	4,903.8	5,221.0	5,921.5	5,190.5	4,721.5	4,567.2	4,203.2	4,202.1	3,875.2
Department of the Navy	8,766.2	8,882.9	8,778.6	6,932.0	7,138.0	8,106.8	8,081.9	8,083.3	7,712.9	7,271.7	6,951.3
Department of the Air Force	14,094.2	14,430.0	14,055.1	10,107.1	12,636.6	11,747.5	11,713.1	10,963.4	12,159.8	13,054.7	13,588.7
Defense Agencies, total	4,868.4	5,616.8	5,780.2	5,919.4	6,114.4	5,766.0	5,553.1	6,145.3	6,144.0	6,228.9	5,414.3
Operational Test & Evaluation, Director	68.2	14.4	32.6	13.6	12.4	12.3	11.2	21.7	21.9	25.0	23.5
Test & Evaluation, Deputy Under Secretary of Defense	160.3	140.7	188.7	223.7	233.2	242.5	231.8	231.0	257.7	238.4	269.7
Department of Education	29.7	37.2	39.7	39.4	41.5	44.1	39.9	39.3	38.2	43.0	56.3
Department of Energy	2,801.0	2,760.9	3,060.1	2,709.5	2,759.7	2,821.9	2,765.5	2,685.0	1,982.8	2,189.1	1,960.2
Department of Health & Human Services, total	661.1	814.4	938.5	1,593.5	1,042.3	1,156.6	1,285.1	1,379.3	1,407.2	1,487.8	1,587.0
Administration on Aging[5]	NA	NA	NA	17.7	17.8	18.2	15.6	17.7	3.5	4.0	4.3
Administration for Children & Families[6] [5]	NA	NA	NA	115.5	4.8	1.4	.9	.8	.0	.0	.0
Agency for Health Care Policy & Research[7]	NA	NA	5.5	8.1	8.5	9.2	12.4	11.3	9.2	9.7	9.8
Alcohol, Drug Abuse, & Mental Health Administration[8]	2.4	3.0	41.5	537.6	NA	NA	NA	NA	NA	NA	NA
Hlth Resources & Svcs Admin	.0	.0	.0	.0	.0	.0	5.8	1.0	.0	.0	.0
Human Development Svcs[5]	46.8	93.2	87.7	NA	NA	NA	NA	NA	NA	NA	NA
National Insts of Health[8]	610.2	716.5	800.7	912.5	1,010.5	1,126.6	1,249.6	1,348.2	1,374.1	1,452.9	1,552.3
Office of the Assistant Secretary for Health[7]	1.6	1.7	1.1	.4	.7	1.2	.8	.3	NA	NA	NA
Off of the Secretary, total	.0	.0	.0	.0	.0	.0	.0	.0	3.7	1.9	1.1
Office of Public Health & Science	NA	NA	NA	NA	NA	NA	NA	NA	3.7	1.9	1.1
Social Security Admin[9]	.0	.0	2.1	1.7	.0	.0	.0	.0	NA	NA	NA
Substance Abuse & Mental Health Services Admin	NA	NA	NA	NA	NA	NA	NA	NA	16.7	19.4	19.6

See explanatory information, if any, and SOURCE at end of table.

Table C-101a. Federal obligations for development, by agency: fiscal years 1988-98

[Dollars in millions]

Page 2 of 3

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Dept of Housing & Urban Dvlpmt	12.1	11.9	12.7	18.4	16.3	15.5	25.9	27.7	22.0	23.4	25.4
Dept of the Interior, total	24.3	27.1	33.3	39.5	38.6	39.0	43.9	29.2	25.5	27.5	28.0
Bureau of Land Management	1.5	1.0	.7	2.8	.4	.9	.0	.0	.0	.0	.0
Bureau of Mines[10]	5.2	5.4	9.4	7.1	4.2	6.9	12.5	.0	NA	NA	NA
Bureau of Reclamation	.7	.6	.5	.9	2.5	2.8	1.8	2.0	1.6	1.9	2.0
Geological Survey[11]	10.9	12.9	15.1	18.2	16.9	12.8	15.7	14.1	23.8	25.5	26.1
National Biological Service[12] [11]	NA	NA	NA	NA	NA	.0	13.8	13.0	NA	NA	NA
Office of the Secretary[13]	.3	.4	.2	.5	.7	.2	.1	-	.0	.0	.0
US Fish & Wildlife Svc[12]	5.7	6.7	7.4	10.0	13.9	15.3	.0	.0	.0	.0	.0
Department of Justice, total	25.7	20.6	20.6	27.8	27.7	23.3	19.2	32.1	45.2	55.0	43.6
Bureau of Prisons[14]	3.9	3.0	2.7	3.3	3.4	3.6	3.3	2.5	2.2	2.3	2.3
Drug Enforcement Admin	1.9	2.2	2.0	1.8	1.3	.8	.8	.4	1.2	.5	.4
Federal Bureau of Investigation	12.7	7.7	8.2	10.8	10.9	11.3	7.0	10.9	33.5	35.9	35.9
Office of Justice Programs	7.1	7.8	7.7	11.9	12.1	7.5	8.1	18.3	8.5	16.4	4.9
Department of Labor, total	8.9	13.3	51.4	19.7	27.9	36.1	40.1	25.5	25.8	18.6	16.0
Employment & Training Admin	8.0	9.7	47.4	15.5	26.1	32.5	36.9	21.4	24.3	16.8	14.7
Office of the Secretary	.9	3.6	3.8	4.0	1.7	3.0	2.2	3.4	.8	1.1	.8
Pension Benefit Guaranty Corp	.0	.0	.2	.2	.1	.6	1.0	.7	.6	.6	.6
Dept of Transportation, total	213.4	182.9	247.4	265.3	288.1	319.3	347.4	356.2	174.5	205.7	218.1
Coast Guard	15.7	13.3	15.2	19.2	15.0	24.7	16.7	14.8	15.0	18.7	14.8
Federal Aviation Admin	147.3	123.2	189.9	196.2	206.1	189.1	206.1	205.1	77.7	82.1	97.7
Federal Highway Admin	30.4	34.4	33.8	40.8	57.0	83.1	101.5	109.4	66.1	87.5	102.0
Federal Railroad Admin	1.8	1.5	1.7	2.7	3.9	4.3	3.4	4.0	5.4	.7	.7
Federal Transit Admin[15]	2.3	1.4	1.6	1.7	1.7	13.3	12.1	17.9	8.1	14.2	.7
National Highway Traffic Safety Administration	9.2	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
Office of the Secretary	5.0	4.2	5.1	3.7	3.4	3.9	4.9	3.3	.0	.0	.0
Rsch & Special Programs Administration	1.7	1.3	.0	1.0	1.1	.8	2.7	1.8	2.1	2.5	2.3
Dept of the Treasury, total	10.2	9.3	6.9	6.7	3.8	5.5	9.8	12.4	9.5	10.5	11.8
Bureau of Engraving & Printing	.8	.3	.7	.8	.2	.0	.1	.5	.1	.1	.1
Financial Crimes Enforcement Network	.0	.0	.0	2.3	1.2	1.5	.0	.0	.0	.0	.0
Internal Revenue Svc[16] [17]	.7	.3	.3	.4	.4	.0	5.2	3.9	3.7	3.6	3.6
United States Customs Svc	8.5	6.4	5.8	3.2	2.0	3.9	4.0	7.7	5.7	5.8	8.2
United States Mint	.1	2.0	.1	.1	.0	.1	.5	.3	.0	1.1	.0
US Secret Service[18]	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
Department of Veterans Affairs	19.2	21.0	22.1	22.8	23.0	28.7	24.5	19.1	20.8	22.4	19.5

See explanatory information, if any, and SOURCE at end of table.

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Table C-101a. Federal obligations for development, by agency: fiscal years 1988-98

[Dollars in millions]

Selected agency	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Other agencies:											
Consumer Product Safety Comm	.9	.8	.7	.4	.3	.4	.2	.4	-	.0	.0
Environmental Protection Agcy	79.5	107.0	104.5	79.5	79.6	133.7	151.2	149.9	83.5	89.2	96.8
International Development Cooperation Agency, total	69.3	60.0	29.3	20.4	65.9	23.0	38.1	29.8	18.0	13.0	17.0
Agency for International Development[19] [20]	69.3	60.0	29.3	20.4	65.9	23.0	38.1	29.8	18.0	13.0	17.0
Library of Congress	5.5	6.4	7.0	7.3	8.5	8.7	8.1	8.0	8.4	7.9	9.4
National Aeronautics & Space Administration	1,998.8	2,514.7	3,472.6	3,909.1	4,428.3	4,471.1	4,455.7	4,968.9	4,692.1	4,939.8	5,095.3
Nat'l Archives & Records Admin	.2	.1	.1	.1	.1	-	.0	.0	.0	.0	.0
Tennessee Valley Authority	68.8	48.0	43.2	49.5	72.9	80.6	71.9	66.7	47.4	54.2	41.2
United States Arms Control & Disarmament Agency[21]	2.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
US Information Agency	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

[1] Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

[2] The Human Nutrition Information Service merged with the Agricultural Research Service on Feb. 20, 1994.

[3] The Federal Grain Inspection Service was abolished on Oct. 20, 1994, and its functions were assumed by the Grain Inspection Packers & Stockyards Administration.

[4] The Office of International Cooperation & Development became part of the Foreign Agricultural Service (FAS) in June 1994. Data reported for FAS include funds appropriated to International Cooperation & Development programs within FAS as of fiscal year 1994.

[5] In fiscal year 1991 Human Development Services was replaced by the Administration for Children & Families (ACF) and by the Administration on Aging (AoA). Beginning in fiscal year 1992, data shown for the ACF are separate from obligations for the AoA.

[6] Obligations reported for the Administration for Children & Families may be incomplete for fiscal year 1992 due to unavailability of data.

[7] In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

[8] Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields in fiscal year 1992 seems to be underreported. Historical revisions to these data are expected to be reported in future series.

[9] As of Mar. 31, 1995, the Social Security Administration became an independent agency; it is no longer part of the Department of Health & Human Services.

[10] In January 1996 the Bureau of Mines was abolished, and some of its activities were transferred to the Bureau of Land Management, the Geological Survey, and the Department of Energy.

[11] As of fiscal year 1996, data for the National Biological Service (NBS) are included with the Geological Survey's submission, since NBS's funding comes from the Geological Survey's congressional appropriation.

[12] The National Biological Service's (NBS) name changed from the National Biological Survey on Jan. 5, 1995. As of fiscal year 1994, NBS performs all biological research activities formerly funded by the United States Fish & Wildlife Service and the National Park Service.

[13] The Department of Interior's Office of the Secretary did not fund any R&D activities for fiscal years 1996-98.

[14] The Bureau of Prisons was formerly listed as the Federal Prison System.

[15] The name of this agency changed from the Urban Mass Transit Administration to the Federal Transit Administration on Dec. 18, 1991.

[16] Due to the reorganization of the Internal Revenue Service and subsequent unavailability of data, fiscal year 1992 figures are taken from estimates made in the Vol. 41 submission.

[17] Large changes in obligations reported by the Internal Revenue Service for Vol. 44 are due to shifts in research funding.

[18] The United States Secret Service was formerly listed as the Office of Protective Research.

[19] Increases in outlays and obligations reported by the Department of State during the Vol. 44 survey cycle reflect reporting of monies received through interagency agreements with the Agency for International Development. The Department of State transfers these outlays and obligations to other R&D performers.

[20] Since the experimental New Management System, which is an integrated system containing the Agency for International Development's (AID) budget and accounting records, does not contain codes for determining either fields of science and engineering or performer data, the National Science Foundation has estimated these data based on AID's Budget Authority (fiscal years 1996-98) and AID's Federal Funds Survey submission to Vol. 44 (fiscal years 1994-96). More accurate data for AID will be reported in future volumes of this survey.

[21] Fiscal year 1994 figures for the United States Arms Control & Disarmament Agency are estimates based on the agency's Vol. 43 submission.

NOTES: Because of rounding, detail may not add to totals.

Data for only those agencies that had obligations in the variables represented by this table appear in the table. For a complete list of the Federal agencies that have been included in the Federal funds survey, refer to appendix A.

Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems.

KEY:
- = Amount less than 50 thousand dollars
NA = Not applicable (indicates that the agency or agency subdivision did not exist as such or in that organization in that year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-102. Federal obligations for research and development, by performer: fiscal years 1977-87

[Dollars in millions]

Page 1 of 1

Performer	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	23,450.4	25,845.1	28,145.1	29,830.4	33,103.9	36,432.6	38,711.5	42,224.9	48,359.6	51,412.4	55,253.7
Intramural[1]	6,011.7	6,810.4	7,417.5	7,632.3	8,425.7	9,141.0	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1
Industrial firms excluding FFRDCs	10,717.2	11,400.0	12,172.4	12,969.1	14,867.9	17,192.2	17,019.7	18,610.4	21,704.9	24,201.2	26,768.2
FFRDCs administered by industrial firms	1,112.7	1,242.5	1,318.1	1,408.1	1,413.9	1,506.4	1,501.2	1,608.4	1,790.8	1,697.0	1,860.0
Universities & colleges excluding FFRDCs	2,905.5	3,374.6	3,888.8	4,263.4	4,465.8	4,605.5	4,966.4	5,546.9	6,339.7	6,558.8	7,337.3
FFRDCs administered by universities[2]	1,313.1	1,311.9	1,488.3	1,533.3	1,791.0	1,976.7	2,393.9	2,485.8	2,816.4	2,767.7	3,209.6
Nonprofit institutions excluding FFRDCs	800.0	998.2	1,026.5	1,105.6	1,068.8	1,091.7	1,241.6	1,497.3	1,699.2	1,677.0	1,711.4
FFRDCs administered by nonprofit institutions[2]	263.9	315.9	368.7	441.8	525.2	520.6	581.3	597.1	689.2	551.2	510.6
State and local governments	238.0	268.4	310.1	265.5	222.2	184.3	186.0	130.9	129.4	128.4	148.2
Foreign	88.2	123.2	154.7	211.2	323.4	214.3	239.5	175.8	244.5	296.3	295.3

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-102a. Federal obligations for research and development, by performer: fiscal years 1988-98

[Dollars in millions]

Page 1 of 1

Performer	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total	56,769.4	61,406.5	63,559.5	61,295.2	65,592.6	67,314.0	67,257.0	68,736.4	67,662.6	69,972.9	69,838.4
Intramural[1]	14,114.6	15,024.6	15,848.9	15,138.2	15,582.8	16,663.3	16,139.1	17,312.4	16,596.4	17,438.4	16,806.5
Industrial firms excluding FFRDCs	26,719.2	28,547.9	29,370.0	26,420.6	29,744.8	30,219.0	30,454.4	30,468.7	30,361.4	31,519.7	31,727.2
FFRDCs administered by industrial firms	1,911.3	2,056.3	2,326.8	2,168.3	2,117.0	1,451.3	1,293.5	1,205.1	1,137.0	1,111.3	1,190.7
Universities & colleges excluding FFRDCs	7,827.7	8,672.0	9,137.5	10,168.5	10,271.2	11,208.4	11,829.0	11,931.1	11,944.7	12,340.6	12,515.0
FFRDCs administered by universities[2]	3,473.9	3,497.1	3,449.8	3,603.8	3,855.5	3,614.2	3,292.9	3,574.5	3,447.7	3,369.7	3,347.2
Nonprofit institutions excluding FFRDCs	1,683.2	1,999.9	2,248.2	2,637.4	2,803.6	2,811.9	2,921.9	2,835.0	2,886.9	2,938.1	3,033.1
FFRDCs administered by nonprofit institutions[2]	505.6	522.0	621.6	679.4	745.6	753.4	735.5	831.4	754.5	732.1	746.2
State and local governments	142.1	167.4	213.9	215.1	184.1	320.3	325.4	316.5	246.7	245.2	194.7
Foreign	391.8	919.4	342.6	263.9	287.9	272.2	265.3	261.7	287.4	277.7	277.8

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[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTES: Because of rounding, detail may not add to totals.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-103. Federal obligations for research, by performer: fiscal years 1977-87

[Dollars in millions]

Page 1 of 1

Performer	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5
Intramural[1]	2,957.7	3,220.8	3,481.2	3,666.3	4,034.2	4,194.2	4,710.3	4,764.7	5,056.1	5,160.3	5,437.7
Industrial firms excluding FFRDCs	1,367.3	1,651.4	1,762.0	2,077.6	1,958.3	2,156.6	2,114.2	2,137.4	2,074.4	2,280.5	2,448.6
FFRDCs administered by industrial firms	192.2	235.2	245.0	311.0	351.3	487.3	522.6	496.5	485.9	482.1	433.5
Universities & colleges excluding FFRDCs	2,583.5	2,928.0	3,333.4	3,699.1	3,920.1	4,045.4	4,467.9	5,029.7	5,726.3	5,883.4	6,640.2
FFRDCs administered by universities[2]	670.3	714.9	800.6	851.2	940.6	1,056.7	1,250.1	1,335.9	1,421.3	1,291.7	1,471.0
Nonprofit institutions excluding FFRDCs	512.2	590.9	622.6	678.4	705.2	743.5	836.9	922.6	1,045.1	1,062.9	1,207.5
FFRDCs administered by nonprofit institutions[2]	55.6	66.9	73.4	71.7	67.7	104.2	85.2	87.3	97.0	87.9	89.8
State and local governments	115.2	128.8	139.5	150.9	129.3	125.9	136.7	88.2	89.5	91.0	90.2
Foreign	60.3	69.9	77.4	91.1	106.0	108.3	129.6	116.5	137.9	162.4	121.9

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-103a. Federal obligations for research, by performer: fiscal years 1988-98

[Dollars in millions]

Page 1 of 1

Performer	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,432.8	28,569.9	28,265.1	29,485.2	30,218.6
Intramural[1]	5,338.4	5,897.0	5,809.8	6,454.4	6,523.3	7,451.8	7,488.2	7,760.7	7,528.2	7,887.9	8,017.3
Industrial firms excluding FFRDCs	2,642.5	2,875.0	3,191.6	3,406.5	3,451.2	3,923.8	4,063.5	4,727.9	4,291.3	4,601.6	4,760.6
FFRDCs administered by industrial firms	455.2	604.3	614.3	709.6	684.9	799.3	737.2	819.0	696.2	722.5	751.3
Universities & colleges excluding FFRDCs	7,022.9	7,793.1	8,136.5	8,867.5	9,060.7	9,892.3	10,323.7	10,369.7	10,673.7	11,120.2	11,327.5
FFRDCs administered by universities[2]	1,564.8	1,703.4	1,791.5	2,160.9	2,351.8	2,299.4	2,181.1	2,235.8	2,386.0	2,404.7	2,506.0
Nonprofit institutions excluding FFRDCs	1,300.0	1,519.8	1,660.0	1,925.9	2,049.6	2,041.3	2,087.1	2,080.5	2,179.5	2,242.4	2,345.6
FFRDCs administered by nonprofit institutions[2]	82.9	109.5	137.6	170.9	139.9	173.4	178.0	210.1	195.8	211.2	224.3
State and local governments	103.1	121.2	126.4	129.3	109.3	211.8	230.8	221.4	187.4	171.7	163.2
Foreign	140.4	142.1	154.5	143.4	120.0	97.4	143.3	144.8	126.8	122.8	122.7

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTES: Because of rounding, detail may not add to totals.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-104. Federal obligations for basic research, by performer: fiscal years 1977-87

[Dollars in millions]

Page 1 of 1

Performer	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4
Intramural[1]	914.1	1,029.3	1,089.1	1,182.5	1,301.8	1,465.5	1,689.8	1,861.1	1,923.4	2,018.9	2,046.2
Industrial firms excluding FFRDCs	208.1	247.7	277.1	325.3	292.9	270.9	292.9	377.9	380.1	511.6	467.0
FFRDCs administered by industrial firms	53.1	65.4	66.6	70.4	73.3	87.4	83.0	91.1	122.6	117.6	119.9
Universities & colleges excluding FFRDCs	1,555.1	1,759.2	2,079.9	2,320.3	2,503.2	2,727.1	3,112.3	3,530.8	4,038.7	4,132.1	4,665.6
FFRDCs administered by universities[2]	324.1	356.8	393.6	436.8	490.6	516.7	604.0	668.9	724.2	724.1	906.7
Nonprofit institutions excluding FFRDCs	162.5	192.8	240.3	279.5	313.1	355.6	409.6	473.6	555.8	572.1	657.7
FFRDCs administered by nonprofit institutions[2]	5.6	5.8	6.7	7.5	8.6	9.0	8.0	8.2	12.4	13.0	13.3
State and local governments	15.6	17.1	19.8	23.9	26.5	24.5	32.1	28.1	30.5	30.9	37.5
Foreign	20.4	24.6	19.5	28.1	31.2	24.9	28.5	27.7	30.9	32.7	28.5

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-104a. Federal obligations for basic research, by performer: fiscal years 1988-98

[Dollars in millions]

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Performer	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,545.1	13,892.8	14,462.4	14,958.7	15,204.7
Intramural[1]	2,050.3	2,313.4	2,294.6	2,391.6	2,337.6	2,661.8	2,504.8	2,697.4	2,689.2	2,756.4	2,717.6
Industrial firms excluding FFRDCs	596.9	773.2	887.5	949.9	920.3	896.3	1,109.1	1,221.2	1,131.0	1,150.7	1,090.4
FFRDCs administered by industrial firms	133.0	223.9	246.8	264.0	247.2	243.6	237.6	239.8	272.8	293.6	312.0
Universities & colleges excluding FFRDCs	4,868.3	5,221.4	5,548.2	6,064.5	6,331.8	6,833.7	7,024.3	6,949.1	7,406.1	7,673.9	7,874.9
FFRDCs administered by universities[2]	989.8	1,098.1	1,227.3	1,306.2	1,394.1	1,402.7	1,336.0	1,438.4	1,522.0	1,569.7	1,648.4
Nonprofit institutions excluding FFRDCs	728.6	838.9	924.1	1,015.5	1,097.2	1,164.9	1,117.9	1,148.4	1,235.2	1,303.0	1,330.8
FFRDCs administered by nonprofit institutions[2]	17.7	42.2	59.2	80.8	65.5	71.3	73.9	75.2	76.5	83.0	103.8
State and local governments	42.7	43.6	50.4	49.1	42.4	71.7	75.2	78.7	80.2	78.1	75.6
Foreign	46.3	47.4	47.6	49.1	53.8	53.3	66.1	44.5	49.5	50.3	51.3

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTES: Because of rounding, detail may not add to totals.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-105. Federal obligations for applied research, by performer: fiscal years 1977-87

[Dollars in millions]

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Performer	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1
Intramural[1]	2,043.6	2,191.5	2,392.1	2,483.8	2,732.4	2,728.7	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5
Industrial firms excluding FFRDCs	1,159.1	1,403.7	1,484.9	1,752.3	1,665.4	1,885.7	1,821.3	1,759.5	1,694.3	1,768.8	1,981.6
FFRDCs administered by industrial firms	139.1	169.8	178.3	240.7	278.1	400.0	439.7	405.4	363.3	364.5	313.6
Universities & colleges excluding FFRDCs	1,028.4	1,168.8	1,253.5	1,378.8	1,416.9	1,318.3	1,355.6	1,498.9	1,687.6	1,751.4	1,974.6
FFRDCs administered by universities[2]	346.2	358.1	407.0	414.3	450.0	540.0	646.1	667.0	697.1	567.6	564.3
Nonprofit institutions excluding FFRDCs	349.6	398.1	382.3	398.9	392.1	387.9	427.3	449.0	489.3	490.8	549.8
FFRDCs administered by nonprofit institutions[2]	49.9	61.2	66.7	64.2	59.1	95.2	77.1	79.1	84.6	74.9	76.5
State and local governments	99.6	111.8	119.7	127.1	102.8	101.4	104.7	60.0	58.9	60.0	52.7
Foreign	39.9	45.3	57.9	63.0	74.8	83.4	101.1	88.8	107.0	129.7	93.4

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-105a. Federal obligations for applied research, by performer: fiscal years 1988-98

[Dollars in millions]

Performer	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,677.1	13,802.7	14,526.5	15,013.9
Intramural[1]	3,288.1	3,583.5	3,515.2	4,062.8	4,185.7	4,790.0	4,983.3	5,063.2	4,839.0	5,131.4	5,299.7
Industrial firms excluding FFRDCs	2,045.6	2,101.8	2,304.2	2,456.6	2,530.9	3,027.5	2,954.4	3,506.7	3,160.3	3,451.0	3,670.2
FFRDCs administered by industrial firms	322.2	380.5	367.5	445.6	437.6	555.6	499.6	579.2	423.4	428.9	439.3
Universities & colleges excluding FFRDCs	2,154.6	2,571.8	2,588.4	2,803.0	2,728.9	3,058.6	3,299.4	3,420.6	3,267.6	3,446.4	3,452.6
FFRDCs administered by universities[2]	575.0	605.4	564.3	854.7	957.6	896.8	845.1	797.4	864.0	835.0	857.6
Nonprofit institutions excluding FFRDCs	571.3	681.0	735.9	910.4	952.5	876.4	969.2	932.0	944.3	939.4	1,014.8
FFRDCs administered by nonprofit institutions[2]	65.2	67.3	78.4	90.1	74.5	102.2	104.0	134.9	119.4	128.2	120.6
State and local governments	60.4	77.6	76.1	80.2	66.9	140.1	155.5	142.7	107.3	93.6	87.7
Foreign	94.1	94.6	106.9	94.3	66.2	44.1	77.2	100.3	77.4	72.5	71.4

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-106. Federal obligations for development, by performer: fiscal years 1977-87

[Dollars in millions]

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Performer	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	14,936.3	16,238.4	17,610.1	18,233.1	20,891.1	23,410.4	24,458.0	27,246.1	32,226.1	34,910.2	37,313.2
Intramural[1]	3,054.0	3,589.7	3,936.3	3,966.1	4,391.5	4,946.8	5,871.7	6,807.6	7,889.3	8,374.6	7,975.3
Industrial firms excluding FFRDCs	9,350.0	9,748.6	10,410.5	10,891.5	12,909.6	15,035.6	14,905.5	16,472.9	19,630.5	21,920.7	24,319.6
FFRDCs administered by industrial firms	920.6	1,007.3	1,073.1	1,097.0	1,062.6	1,019.1	978.5	1,112.0	1,304.9	1,215.0	1,426.4
Universities & colleges excluding FFRDCs	322.0	446.6	555.5	564.4	545.6	560.0	498.5	517.2	613.5	675.4	697.0
FFRDCs administered by universities[2]	642.8	597.1	687.7	682.2	850.4	920.0	1,143.8	1,149.9	1,395.1	1,476.0	1,738.6
Nonprofit institutions excluding FFRDCs	287.9	407.3	403.8	427.1	363.6	348.1	404.7	574.6	654.1	614.1	503.9
FFRDCs administered by nonprofit institutions[2]	208.3	249.0	295.4	370.1	457.5	416.4	496.1	509.8	592.2	463.3	420.8
State and local governments	122.9	139.6	170.7	114.6	92.9	58.4	49.3	42.8	39.9	37.4	58.0
Foreign	27.9	53.2	77.3	120.1	217.5	106.0	109.9	59.2	106.7	133.9	173.4

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-106a. Federal obligations for development, by performer: fiscal years 1988-98

[Dollars in millions]

Page 1 of 1

Performer	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total	38,119.3	40,641.0	41,937.1	37,326.8	41,102.0	40,423.5	39,824.2	40,166.5	39,397.5	40,487.7	39,619.8
Intramural[1]	8,776.2	9,127.6	10,039.1	8,683.8	9,059.6	9,211.6	8,650.9	9,551.8	9,068.1	9,550.5	8,789.1
Industrial firms excluding FFRDCs	24,076.7	25,672.9	26,178.4	23,014.1	26,293.6	26,295.2	26,390.9	25,740.7	26,070.1	26,918.1	26,966.6
FFRDCs administered by industrial firms	1,456.1	1,452.0	1,712.5	1,458.7	1,432.2	652.1	556.3	386.1	440.7	388.9	439.4
Universities & colleges excluding FFRDCs	804.8	878.8	1,001.0	1,301.0	1,210.6	1,316.1	1,505.2	1,561.4	1,271.0	1,220.4	1,187.5
FFRDCs administered by universities[2]	1,909.1	1,793.6	1,658.3	1,442.9	1,503.7	1,314.8	1,111.8	1,338.7	1,061.6	965.0	841.2
Nonprofit institutions excluding FFRDCs	383.2	480.0	588.2	711.5	753.9	770.6	834.8	754.5	707.4	695.7	687.5
FFRDCs administered by nonprofit institutions[2]	422.7	412.4	484.0	508.5	605.7	580.0	557.6	621.3	558.7	520.8	521.9
State and local governments	39.0	46.3	87.5	85.8	74.8	108.5	94.7	95.1	59.3	73.5	31.5
Foreign	251.4	777.3	188.1	120.5	167.9	174.8	122.0	116.9	160.5	154.8	155.1

[1] Intramural activities cover costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

[2] In 1984 the Center for Naval Analyses was reclassified from an FFRDC administered by a university to an FFRDC administered by a nonprofit institution.

NOTE: Because of rounding, detail may not add to totals.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-107. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1977-87

[Dollars in millions]

Page 1 of 1

Field of science and engineering	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all fields	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	13,022.2	14,253.5	14,978.8	16,133.4	16,502.2	17,940.5
Life sciences, total	3,007.7	3,427.1	3,848.3	4,192.3	4,435.6	4,745.5	5,177.9	5,635.9	6,362.5	6,464.3	7,341.4
Biol & agricultural, total	1,777.6	2,024.0	2,320.3	2,507.6	2,711.8	2,811.8	3,064.4	3,325.0	3,755.3	3,861.3	4,358.5
Biol (excl environmental)	NA	1,488.5	1,702.2	1,830.6	1,996.6	2,079.3	2,305.5	2,563.1	2,885.7	2,993.4	3,502.0
Environmental biology	NA	184.9	216.6	229.7	220.3	183.5	193.6	250.0	260.3	264.1	289.6
Agricultural	NA	350.7	401.5	447.2	494.8	549.0	565.2	512.0	609.3	603.8	566.9
Medical sciences, total	1,138.8	1,287.4	1,380.6	1,536.9	1,609.9	1,773.0	1,927.5	2,112.8	2,368.5	2,360.4	2,664.8
Clinical medical	634.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other medical	504.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	91.4	115.7	147.3	147.9	113.9	160.7	186.1	198.1	238.7	242.6	318.2
Psychology, total	156.2	176.7	197.4	199.0	208.9	218.4	240.9	266.7	327.1	334.0	369.5
Biological aspects	57.6	53.4	56.8	59.9	57.5	59.6	63.2	80.8	91.2	90.1	98.3
Social aspects	54.5	65.4	83.6	94.8	93.5	98.1	104.7	107.8	142.9	143.5	154.5
Psychological sci, n.e.c.	44.1	57.9	57.0	44.3	57.9	60.7	73.0	78.1	93.1	100.4	116.7
Physical sciences, total	1,530.2	1,645.6	1,792.6	2,000.6	2,220.5	2,500.4	2,891.4	2,969.0	3,046.0	3,069.1	3,252.6
Astronomy	197.3	213.6	284.4	285.7	281.0	275.8	357.4	382.3	414.7	468.2	522.2
Chemistry	370.7	405.0	443.6	454.5	486.9	481.2	520.3	606.4	650.4	662.4	680.3
Physics	866.3	942.4	1,022.7	1,182.5	1,345.6	1,610.5	1,854.6	1,836.4	1,816.0	1,805.9	1,853.6
Physical sciences, n.e.c.	95.9	84.6	41.8	77.9	107.0	132.9	159.2	143.9	164.8	132.6	196.6
Environmental sciences, total	906.0	1,024.6	1,101.0	1,261.0	1,121.1	1,148.3	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6
Atmospheric sciences	318.4	319.2	348.7	409.5	373.4	425.8	460.7	434.1	486.0	521.3	552.9
Geological sciences	269.4	316.4	358.7	401.8	396.1	357.6	333.5	359.0	429.0	443.9	441.7
Oceanography	195.9	223.8	220.5	262.1	261.7	261.3	343.5	363.5	398.5	429.7	427.4
Environmental sci, n.e.c.	122.3	165.2	173.1	187.6	89.9	103.6	113.5	119.3	90.2	86.8	89.5
Math & computer sci, total	195.9	216.3	210.3	240.9	278.9	350.1	419.4	440.3	574.9	615.4	640.6
Mathematics	96.4	93.4	84.2	90.9	117.7	128.1	133.5	151.0	183.6	184.5	204.5
Computer sciences	89.4	107.3	106.3	128.6	121.5	170.9	214.6	214.5	280.3	302.4	297.8
Math & computer sci, n.e.c.	10.1	15.7	19.9	21.4	39.7	51.0	71.4	74.8	111.0	128.5	138.3
Engineering, total	2,112.9	2,421.2	2,571.6	2,830.1	3,071.5	3,386.5	3,517.0	3,624.1	3,617.6	3,738.9	3,906.3
Aeronautical	408.8	482.9	624.9	708.1	709.6	741.2	820.6	860.4	738.0	775.6	810.4
Astronautical	159.0	165.1	251.1	302.3	303.9	290.7	321.5	396.8	424.7	526.9	624.6
Chemical	104.8	149.4	114.3	96.3	147.6	95.1	145.0	144.5	254.3	245.8	215.8
Civil	117.4	142.4	125.0	158.8	159.1	201.9	188.5	202.8	216.6	202.9	204.4
Electrical	382.7	432.6	417.9	517.1	556.7	612.2	614.9	630.0	626.8	674.4	786.3
Mechanical	199.2	234.1	195.9	208.0	204.6	201.2	266.4	190.5	267.0	236.5	233.5
Metallurgy & materials	293.8	286.0	249.3	236.2	256.0	309.1	332.5	341.1	439.2	445.0	362.0
Engineering, n.e.c.	447.2	528.6	593.2	603.3	733.9	935.1	827.6	858.0	651.0	631.7	669.3
Social sciences, total	426.1	489.5	527.3	523.8	497.4	385.9	435.3	436.3	460.0	415.5	480.0
Anthropology	12.4	19.5	17.3	17.2	14.5	14.6	12.8	18.6	18.0	13.6	15.2
Economics	142.9	163.2	181.9	192.8	206.7	157.1	165.6	147.3	159.7	131.3	148.5
Political science	8.5	8.8	13.9	12.2	10.8	7.5	11.1	10.8	14.6	11.6	11.3
Sociology	52.2	60.3	64.5	71.4	65.0	52.0	67.8	70.2	66.5	67.0	74.0
Social sciences, n.e.c.	210.3	237.6	249.6	230.3	200.4	154.7	178.0	189.5	201.3	192.0	231.0
Other sciences, n.e.c.	179.1	205.8	286.6	349.6	378.8	287.0	320.4	330.5	341.6	383.3	438.3

NOTE: Because of rounding, detail may not add to totals.

KEY:
NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-107a. Federal obligations for total research, by detailed field of science and engineering: fiscal years 1988-98

[Dollars in millions]

Page 1 of 1

Field of science and engineering	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all fields	18,650.1	20,765.5	21,622.4	23,968.4	24,490.6	26,890.5	27,432.8	28,569.9	28,265.1	29,485.2	30,218.6
Life sciences, total	7,724.5	8,495.1	8,829.8	9,622.0	9,910.5	10,772.1	11,290.9	11,868.7	12,099.7	12,805.0	13,008.5
Biol & agricultural, total	4,573.4	5,020.0	5,178.4	5,597.9	5,633.6	6,059.3	6,081.0	6,427.8	6,646.8	NA	NA
Biol (excl environmental)	3,681.7	3,983.2	4,144.6	4,457.8	4,435.1	4,789.9	4,744.3	4,866.0	5,242.1	NA	NA
Environmental biology	301.0	367.8	342.3	459.7	511.0	556.5	609.5	891.5	787.0	NA	NA
Agricultural	590.7	669.0	691.4	680.3	687.5	712.9	727.2	670.3	617.7	NA	NA
Medical sciences	2,941.0	3,222.5	3,382.4	3,460.3	3,909.9	4,404.4	4,846.5	5,004.6	4,987.3	NA	NA
Life sciences, n.e.c.	210.1	252.6	269.1	563.8	367.0	308.3	363.5	436.3	465.6	NA	NA
Psychology, total	389.8	421.7	448.6	482.4	298.1	550.7	549.8	620.8	513.0	544.4	544.9
Biological aspects	105.3	121.8	130.6	140.2	34.6	37.2	46.9	57.0	62.9	NA	NA
Social aspects	149.4	149.9	177.5	197.5	100.9	134.7	116.8	156.3	80.6	NA	NA
Psychological sci, n.e.c.	135.2	149.9	140.5	144.8	162.6	378.7	386.1	407.5	369.5	NA	NA
Physical sciences, total	3,317.3	3,705.2	3,808.7	4,235.3	4,439.2	4,427.0	4,258.1	4,281.6	3,964.4	4,277.7	4,100.1
Astronomy	470.8	541.9	597.2	631.7	739.1	686.3	747.1	764.9	738.8	NA	NA
Chemistry	703.1	782.6	761.7	828.4	896.2	843.2	872.3	866.2	878.8	NA	NA
Physics	1,975.3	2,190.8	2,254.9	2,460.9	2,578.2	2,638.4	2,436.0	2,451.3	2,016.4	NA	NA
Physical sciences, n.e.c.	168.1	189.9	195.0	314.3	225.7	259.2	202.7	199.2	330.4	NA	NA
Environmental sciences, total	1,607.0	1,773.2	2,174.1	2,149.8	2,207.6	2,608.5	2,827.6	2,947.4	2,997.0	3,010.6	3,129.2
Atmospheric sciences	587.8	588.0	773.4	802.7	767.3	984.1	1,088.1	1,176.1	1,088.7	NA	NA
Geological sciences	441.6	542.8	661.1	728.7	735.7	797.9	835.2	864.2	777.7	NA	NA
Oceanography	460.4	491.9	520.1	398.6	458.9	467.4	487.3	424.0	553.8	NA	NA
Environmental sci, n.e.c.	117.1	150.5	219.5	219.8	245.8	359.2	417.1	483.0	576.8	NA	NA
Math & computer sci, total	642.9	735.4	840.7	903.7	1,160.3	1,225.4	1,291.5	1,530.9	1,554.1	1,675.6	1,959.5
Mathematics	217.9	236.1	241.3	227.6	318.7	290.8	339.1	262.4	251.3	NA	NA
Computer sciences	292.7	364.6	562.1	584.9	771.8	826.1	811.0	961.9	1,102.9	NA	NA
Math & computer sci, n.e.c.	132.3	134.8	37.3	91.1	69.9	108.5	141.4	306.6	199.9	NA	NA
Engineering, total	3,956.4	4,442.2	4,226.6	4,944.5	4,977.0	5,499.4	5,509.0	5,740.1	5,679.6	5,565.3	5,830.4
Aeronautical	801.8	986.8	927.1	1,016.2	874.6	1,193.0	1,236.2	1,248.6	1,248.8	NA	NA
Astronautical	575.4	677.4	580.8	653.1	630.4	494.0	499.1	545.1	525.4	NA	NA
Chemical	258.1	142.2	241.9	304.3	297.5	245.5	234.8	250.4	213.6	NA	NA
Civil	214.9	229.8	317.7	305.0	330.2	252.0	296.4	340.4	300.1	NA	NA
Electrical	731.1	843.1	640.0	729.9	759.0	881.5	713.0	765.9	661.8	NA	NA
Mechanical	240.8	257.4	268.3	335.5	337.2	466.9	366.0	418.1	300.9	NA	NA
Metallurgy & materials	456.7	521.0	554.5	710.7	727.2	695.7	839.1	793.3	950.2	NA	NA
Engineering, n.e.c.	677.8	784.5	696.3	889.8	1,020.8	1,270.9	1,324.5	1,378.3	1,478.8	NA	NA
Social sciences, total	485.8	551.0	630.0	727.3	689.7	674.9	647.4	678.7	674.2	749.1	786.9
Anthropology	14.3	13.9	14.4	16.0	14.1	13.7	16.2	21.7	8.5	NA	NA
Economics	159.5	166.8	197.2	187.4	211.6	204.7	193.3	206.5	182.8	NA	NA
Political science	12.2	13.5	13.1	17.0	22.6	29.2	25.4	22.3	11.6	NA	NA
Sociology	81.8	94.1	116.2	184.0	80.7	76.7	68.1	47.8	38.8	NA	NA
Social sciences, n.e.c.	218.0	262.8	289.1	322.9	360.8	350.5	344.4	380.3	432.5	NA	NA
Other sciences, n.e.c.	526.5	641.6	663.7	903.4	808.3	1,132.5	1,058.4	901.8	783.0	857.4	859.1

NOTES: Because of rounding, detail may not add to totals.

During the Vol. 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:
NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-108. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1977-87

[Dollars in millions]

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Field of science and engineering	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all fields	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4
Life sciences, total	1,383.4	1,588.4	1,891.8	2,054.4	2,223.8	2,526.0	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9
Biol & agricultural, total	933.6	1,078.7	1,279.3	1,339.4	1,462.4	1,674.8	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4
Biol (excl environmental)	NA	874.5	1,055.5	1,099.9	1,201.7	1,401.2	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5
Environmental biology	NA	64.3	90.8	86.1	83.3	83.2	92.7	120.8	125.7	125.7	141.0
Agricultural	NA	139.8	133.0	153.5	177.4	190.4	214.2	218.1	283.5	265.7	267.9
Medical sciences, total	414.8	467.7	560.1	657.0	706.2	793.4	878.9	1,015.3	1,145.4	1,196.6	1,341.0
Clinical medical	39.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other medical	375.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	35.0	42.0	52.4	58.0	55.3	57.8	83.6	97.7	125.7	119.2	150.6
Psychology, total	55.7	67.5	75.1	84.2	91.0	89.9	92.9	107.9	132.8	133.0	147.1
Biological aspects	22.5	23.5	26.4	30.2	30.5	32.9	31.4	43.7	48.0	47.0	49.3
Social aspects	20.0	25.3	34.0	31.3	30.2	33.7	32.8	33.4	46.9	45.3	45.5
Psychological sci, n.e.c.	13.1	18.7	14.7	22.8	30.2	23.3	28.7	30.8	38.0	40.7	52.3
Physical sciences, total	890.0	941.4	1,050.0	1,220.6	1,324.9	1,393.8	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0
Astronomy	193.3	209.8	280.6	279.4	274.2	271.1	354.5	379.6	400.7	453.1	504.5
Chemistry	208.7	203.3	224.8	256.9	298.2	312.0	362.2	403.4	425.0	433.4	445.1
Physics	467.4	518.8	535.6	668.2	735.4	790.7	855.1	921.4	959.9	1,003.4	1,072.3
Physical sciences, n.e.c.	20.6	9.5	8.9	16.1	17.1	20.0	15.4	23.6	29.7	24.7	74.2
Environmental sciences, total	387.5	451.3	457.3	522.4	532.8	520.0	580.1	656.7	699.7	749.1	781.0
Atmospheric sciences	143.5	163.3	169.2	179.0	173.8	163.2	172.6	192.2	209.2	240.4	243.8
Geological sciences	128.7	145.1	157.6	198.3	194.2	177.5	178.3	198.0	250.0	265.5	266.2
Oceanography	104.6	120.7	119.1	130.7	143.3	154.5	195.6	220.1	219.3	224.3	249.8
Environmental sci, n.e.c.	10.7	22.2	11.4	14.3	21.5	24.9	33.5	46.4	21.2	18.9	21.2
Math & computer sci, total	83.4	97.7	104.2	116.3	140.4	165.1	208.1	240.8	260.0	293.4	306.4
Mathematics	52.1	55.9	60.0	66.8	79.2	90.9	100.9	113.9	130.3	142.4	158.4
Computer sciences	31.0	40.3	43.0	46.2	52.2	67.4	90.4	104.8	116.1	131.4	128.5
Math & computer sci, n.e.c.	.3	1.6	1.2	3.2	9.0	6.8	16.8	22.2	13.6	19.6	19.5
Engineering, total	337.7	392.6	434.7	465.2	526.0	610.5	689.5	845.0	884.2	968.5	989.5
Aeronautical	49.5	82.8	88.4	104.2	113.3	126.5	140.7	225.5	191.5	226.3	237.4
Astronautical	10.2	14.9	25.2	27.2	33.2	44.8	50.4	52.4	41.6	52.5	48.8
Chemical	24.0	24.1	24.6	26.1	31.3	35.2	50.4	55.5	74.4	73.0	77.5
Civil	10.4	10.8	14.2	22.0	23.4	32.0	32.4	41.9	43.6	45.2	45.7
Electrical	55.1	57.4	62.0	70.6	78.5	93.6	95.8	130.4	144.9	156.3	175.4
Mechanical	29.6	29.5	35.9	42.2	47.4	53.1	60.7	64.1	88.2	83.6	87.2
Metallurgy & materials	124.9	134.5	151.1	121.3	138.5	155.9	182.9	187.3	211.9	228.5	209.8
Engineering, n.e.c.	33.9	38.4	33.2	51.6	60.5	69.4	76.2	87.9	88.2	103.2	107.8
Social sciences, total	95.5	124.3	129.7	147.2	137.0	120.2	137.7	132.6	140.7	113.5	129.5
Anthropology	8.0	12.0	12.5	14.2	13.1	13.1	11.2	16.8	15.8	11.2	12.3
Economics	29.1	33.6	32.7	40.0	34.1	39.0	41.0	29.7	34.3	26.3	29.0
Political science	2.5	3.2	4.1	7.4	6.3	4.4	4.6	4.1	5.8	4.1	5.5
Sociology	15.9	18.6	18.4	25.4	22.6	18.7	32.8	33.9	32.4	30.0	34.3
Social sciences, n.e.c.	39.9	57.0	62.0	60.2	60.9	45.1	48.2	48.1	52.4	41.9	48.4
Other sciences, n.e.c.	25.5	35.4	50.0	63.9	65.4	56.1	73.3	68.8	99.4	122.5	130.9

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-108a. Federal obligations for basic research, by detailed field of science and engineering: fiscal years 1988-98

[Dollars in millions]

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Field of science and engineering	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all fields	9,473.6	10,602.0	11,285.6	12,170.8	12,489.9	13,399.1	13,545.1	13,892.8	14,462.4	14,958.7	15,204.7
Life sciences, total	4,501.8	4,915.7	5,177.5	5,433.6	5,841.7	6,288.8	6,478.7	6,645.4	6,911.0	7,315.2	7,393.9
Biol & agricultural, total	2,855.3	3,102.9	3,219.0	3,374.9	3,517.6	3,787.8	3,729.9	3,856.0	3,936.8	NA	NA
Biol (excl environmental)	2,414.9	2,647.2	2,742.2	2,868.5	2,981.8	3,222.5	3,137.7	3,198.6	3,343.0	NA	NA
Environmental biology	146.8	157.3	168.3	186.9	201.6	223.2	221.6	289.8	264.3	NA	NA
Agricultural	293.7	298.4	308.5	319.4	334.2	342.2	370.6	367.5	329.5	NA	NA
Medical sciences	1,573.2	1,708.4	1,849.6	1,857.7	2,131.0	2,380.9	2,594.6	2,640.6	2,754.7	NA	NA
Life sciences, n.e.c.	73.2	104.4	108.9	201.0	193.1	120.1	154.2	148.9	219.5	NA	NA
Psychology, total	177.8	187.1	215.1	225.5	122.6	246.8	247.5	275.5	281.6	298.2	302.0
Biological aspects	52.4	61.0	65.3	68.2	14.3	18.1	23.6	28.9	33.2	NA	NA
Social aspects	40.9	38.1	60.9	69.2	16.9	16.0	16.3	22.2	8.5	NA	NA
Psychological sci, n.e.c.	84.5	88.0	88.8	88.1	91.4	212.7	207.7	224.4	239.8	NA	NA
Physical sciences, total	2,199.6	2,506.5	2,661.5	2,881.5	2,951.4	2,907.1	2,831.6	2,863.0	2,901.7	3,115.0	2,962.4
Astronomy	458.5	524.6	579.9	612.3	729.7	663.4	724.4	732.0	718.6	NA	NA
Chemistry	470.8	504.6	502.1	538.7	556.6	543.7	538.2	557.1	548.3	NA	NA
Physics	1,205.5	1,395.3	1,474.3	1,644.9	1,607.5	1,600.6	1,495.1	1,507.5	1,569.6	NA	NA
Physical sciences, n.e.c.	64.8	81.9	105.1	85.5	57.6	99.4	74.0	66.4	65.2	NA	NA
Environmental sciences, total	872.7	1,016.9	1,274.8	1,263.5	1,303.6	1,533.5	1,505.9	1,473.2	1,531.2	1,514.8	1,507.9
Atmospheric sciences	280.7	316.4	443.7	449.0	435.2	635.1	691.4	694.1	673.5	NA	NA
Geological sciences	267.3	334.9	439.7	499.0	526.5	555.3	485.0	453.7	383.8	NA	NA
Oceanography	269.4	293.5	299.7	197.5	210.0	207.2	180.7	185.9	288.8	NA	NA
Environmental sci, n.e.c.	55.2	72.1	91.6	118.0	131.9	135.9	148.8	139.6	185.1	NA	NA
Math & computer sci, total	313.2	345.8	406.9	426.1	481.4	511.3	511.6	554.0	622.0	733.5	760.7
Mathematics	165.4	167.8	176.3	164.4	228.2	221.8	244.5	167.8	159.4	NA	NA
Computer sciences	125.5	159.5	225.2	223.5	247.7	284.3	243.1	264.3	360.7	NA	NA
Math & computer sci, n.e.c.	22.4	18.4	5.3	38.2	5.5	5.1	24.1	121.9	101.8	NA	NA
Engineering, total	1,006.2	1,183.7	1,101.5	1,233.7	1,249.8	1,207.4	1,320.0	1,468.1	1,606.6	1,338.8	1,612.5
Aeronautical	231.0	327.9	269.6	256.2	245.1	246.2	289.3	270.9	261.1	NA	NA
Astronautical	48.4	58.9	62.3	69.7	94.4	53.6	59.8	64.7	70.7	NA	NA
Chemical	88.6	50.1	75.8	101.7	105.0	72.8	67.5	65.5	57.9	NA	NA
Civil	46.1	51.7	47.3	59.3	53.4	38.7	56.6	71.1	52.9	NA	NA
Electrical	154.0	173.8	146.9	142.5	165.4	203.1	176.9	213.6	193.6	NA	NA
Mechanical	83.5	100.8	91.4	115.6	113.9	142.6	129.5	169.9	119.9	NA	NA
Metallurgy & materials	230.1	254.8	260.2	294.6	273.6	241.3	317.8	346.1	463.9	NA	NA
Engineering, n.e.c.	124.4	165.7	147.9	194.3	199.2	209.1	222.5	266.2	386.7	NA	NA
Social sciences, total	146.8	154.6	146.0	161.3	139.9	194.1	184.0	206.7	230.0	237.5	252.4
Anthropology	12.1	12.1	12.5	12.7	11.0	10.0	9.7	15.1	3.5	NA	NA
Economics	34.7	37.7	37.1	37.3	39.3	46.0	38.4	44.7	29.7	NA	NA
Political science	5.1	5.4	6.4	7.1	6.4	6.4	4.8	7.1	1.1	NA	NA
Sociology	36.8	38.2	24.2	28.2	10.2	11.1	13.1	14.3	11.1	NA	NA
Social sciences, n.e.c.	58.1	61.2	65.8	75.9	72.9	120.6	118.1	125.5	184.5	NA	NA
Other sciences, n.e.c.	255.5	291.7	302.3	545.6	399.4	510.1	465.6	406.9	378.3	405.7	412.9

NOTES: Because of rounding, detail may not add to totals.

During the Vol. 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

Washington Headquarters Services' basic research data will be revised in Vol. 47 to reflect changes that were not incorporated in Vol. 46.

KEY:
NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-109. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1977-87

[Dollars in millions]

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Field of science and engineering	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total, all fields	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,540.6	7,993.4	7,911.4	8,314.7	8,349.1	8,998.1
Life sciences, total	1,624.4	1,838.7	1,956.5	2,137.9	2,211.8	2,219.5	2,286.6	2,348.3	2,575.9	2,605.5	2,979.5
Biol & agricultural, total	844.0	945.3	1,041.0	1,168.1	1,249.4	1,137.0	1,135.6	1,150.3	1,239.8	1,318.4	1,488.1
Biol (excl environmental)	NA	614.0	646.7	730.8	794.9	678.1	683.7	727.3	779.3	841.9	1,040.5
Environmental biology	NA	120.5	125.8	143.6	137.0	100.4	101.0	129.2	134.6	138.3	148.6
Agricultural	NA	210.8	268.6	293.7	317.4	358.6	351.0	293.8	325.8	338.1	299.1
Medical sciences, total	724.0	819.8	820.5	879.9	903.7	979.6	1,048.5	1,097.5	1,223.1	1,163.8	1,323.8
Clinical medical	594.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other medical	129.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	56.4	73.6	95.0	89.9	58.7	102.9	102.4	100.4	113.0	123.3	167.6
Psychology, total	100.5	109.2	122.3	114.8	117.9	128.5	147.9	158.8	194.3	201.0	222.4
Biological aspects	35.1	29.9	30.4	29.7	27.0	26.7	31.8	37.1	43.2	43.1	49.1
Social aspects	34.5	40.1	49.6	63.5	63.3	64.4	71.8	74.3	96.0	98.3	108.9
Psychological sci, n.e.c	30.9	39.1	42.3	21.5	27.7	37.4	44.3	47.4	55.1	59.7	64.4
Physical sciences, total	640.2	704.2	742.6	780.0	895.6	1,106.5	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6
Astronomy	4.0	3.8	3.8	6.3	6.8	4.7	3.0	2.7	14.1	15.1	17.7
Chemistry	162.0	201.7	218.8	197.6	188.7	169.2	158.1	203.0	225.4	229.0	235.2
Physics	398.8	423.6	487.1	514.4	610.2	819.8	999.5	915.0	856.1	802.6	781.4
Physical sciences, n.e.c.	75.3	75.1	32.8	61.8	89.9	112.9	143.7	120.3	135.2	107.9	122.4
Environmental sciences, total	518.5	573.3	643.7	738.6	588.2	628.3	671.2	619.2	704.0	732.6	730.6
Atmospheric sciences	174.9	155.9	179.5	230.5	199.6	262.6	288.1	242.0	276.8	280.9	309.1
Geological sciences	140.7	171.2	201.1	203.4	201.9	180.1	155.2	161.0	179.0	178.4	175.6
Oceanography	91.3	103.1	101.4	131.4	118.4	106.8	147.9	143.4	179.3	205.4	177.6
Environmental sci, n.e.c.	111.6	143.0	161.7	173.3	68.4	78.7	80.0	72.9	69.0	67.9	68.3
Math & computer sci, total	112.5	118.5	106.1	124.7	138.6	185.0	211.3	199.5	314.9	322.0	334.3
Mathematics	44.3	37.5	24.2	24.1	38.6	37.3	32.6	37.1	53.4	42.1	46.1
Computer sciences	58.3	67.0	63.3	82.4	69.3	103.5	124.1	109.7	164.2	171.0	169.3
Math & computer sci, n.e.c.	9.9	14.1	18.6	18.2	30.7	44.3	54.6	52.7	97.3	108.9	118.9
Engineering, total	1,775.2	2,028.6	2,137.0	2,364.9	2,545.4	2,776.1	2,827.5	2,779.1	2,733.4	2,770.4	2,916.8
Aeronautical	359.3	400.0	536.5	604.0	596.3	614.7	679.9	634.9	546.5	549.3	573.0
Astronautical	148.8	150.2	226.0	275.1	270.8	245.9	271.1	344.4	383.2	474.4	575.9
Chemical	80.8	125.3	89.7	70.2	116.3	59.9	94.6	88.9	179.9	172.8	138.3
Civil	107.0	131.6	110.8	136.8	135.8	169.9	156.0	161.0	173.0	157.8	158.7
Electrical	327.6	375.2	355.8	446.6	478.2	518.6	519.1	499.7	481.9	518.1	610.9
Mechanical	169.5	204.7	160.0	165.8	157.3	148.1	205.7	126.3	178.8	153.0	146.2
Metallurgy & materials	168.9	151.4	98.2	114.8	117.5	153.2	149.6	153.7	227.4	216.6	152.2
Engineering, n.e.c.	413.3	490.2	560.0	551.6	673.4	865.7	751.4	770.1	562.8	528.5	561.6
Social sciences, total	330.6	365.1	397.6	376.6	360.5	265.7	297.5	303.8	319.3	302.0	350.5
Anthropology	4.3	7.6	4.9	2.9	1.5	1.5	1.6	1.7	2.1	2.4	2.9
Economics	113.8	129.6	149.2	152.8	172.6	118.2	124.6	117.6	125.4	105.0	119.6
Political science	5.9	5.6	9.8	4.8	4.5	3.2	6.6	6.7	8.9	7.5	5.8
Sociology	36.2	41.7	46.1	46.1	42.4	33.3	35.0	36.3	34.0	37.0	39.6
Social sciences, n.e.c.	170.3	180.6	187.6	170.1	139.5	109.6	129.8	141.4	148.9	150.2	182.6
Other sciences, n.e.c.	153.6	170.4	236.6	285.7	313.5	231.0	247.1	261.7	242.2	260.9	307.4

NOTE: Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-109a. Federal obligations for applied research, by detailed field of science and engineering: fiscal years 1988-98

[Dollars in millions]

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Field of science and engineering	1988	1989	1990	1991	1992	1993	1994	1995	1996	Preliminary	
										1997	1998
Total, all fields	9,176.5	10,163.5	10,336.8	11,797.6	12,000.7	13,491.4	13,887.7	14,677.1	13,802.7	14,526.5	15,013.9
Life sciences, total	3,222.7	3,579.4	3,652.3	4,188.4	4,068.8	4,483.3	4,812.2	5,223.3	5,188.7	5,489.8	5,614.6
Biol & agricultural, total	1,718.0	1,917.2	1,959.4	2,223.0	2,116.0	2,271.5	2,351.1	2,571.9	2,710.0	NA	NA
Biol (excl environmental)	1,266.8	1,336.0	1,402.5	1,589.3	1,453.2	1,567.4	1,606.6	1,667.4	1,899.1	NA	NA
Environmental biology	154.2	210.5	174.0	272.8	309.4	333.3	387.8	601.7	522.7	NA	NA
Agricultural	297.0	370.7	382.9	360.9	353.4	370.8	356.7	302.8	288.1	NA	NA
Medical sciences	1,367.8	1,514.1	1,532.7	1,602.6	1,778.9	2,023.5	2,251.8	2,364.0	2,232.6	NA	NA
Life sciences, n.e.c.	136.9	148.1	160.2	362.9	173.9	188.2	209.3	287.4	246.1	NA	NA
Psychology, total	212.0	234.5	233.5	256.9	175.6	303.9	302.2	345.2	231.5	246.2	242.9
Biological aspects	52.9	60.8	65.3	72.0	20.3	19.1	23.3	28.1	29.7	NA	NA
Social aspects	108.4	111.8	116.5	128.2	84.1	118.7	100.5	134.1	72.1	NA	NA
Psychological sci, n.e.c.	50.7	61.9	51.7	56.7	71.2	166.1	178.4	183.1	129.7	NA	NA
Physical sciences, total	1,117.7	1,198.8	1,147.2	1,353.9	1,487.7	1,519.8	1,426.5	1,418.5	1,062.7	1,162.7	1,137.6
Astronomy	12.3	17.3	17.2	19.3	9.4	22.8	22.8	32.9	20.2	NA	NA
Chemistry	232.3	278.0	259.6	289.7	339.6	299.5	334.2	309.1	330.5	NA	NA
Physics	769.8	795.5	780.6	816.0	970.7	1,037.7	940.9	943.8	446.8	NA	NA
Physical sciences, n.e.c.	103.3	108.0	89.8	228.9	168.1	159.8	128.7	132.7	265.2	NA	NA
Environmental sciences, total	734.3	756.3	899.3	886.3	904.0	1,075.0	1,321.7	1,474.2	1,465.8	1,495.8	1,621.3
Atmospheric sciences	307.1	271.6	329.7	353.7	332.0	349.0	396.7	482.1	415.2	NA	NA
Geological sciences	174.3	207.8	221.4	229.7	209.2	242.6	350.1	410.5	393.9	NA	NA
Oceanography	190.9	198.4	220.4	201.0	248.9	260.2	306.6	238.1	265.0	NA	NA
Environmental sci, n.e.c.	61.9	78.5	127.8	101.7	113.8	223.3	268.3	343.5	391.7	NA	NA
Math & computer sci, total	329.6	389.7	433.9	477.6	678.9	714.1	779.9	976.9	932.1	942.2	1,198.8
Mathematics	52.5	68.3	65.0	63.2	90.5	68.9	94.7	94.6	91.8	NA	NA
Computer sciences	167.2	205.1	336.9	361.4	524.0	541.8	567.9	697.6	742.2	NA	NA
Math & computer sci, n.e.c.	109.9	116.3	31.9	52.9	64.3	103.4	117.3	184.7	98.1	NA	NA
Engineering, total	2,950.2	3,258.4	3,125.1	3,710.8	3,727.1	4,292.0	4,189.0	4,272.0	4,073.0	4,226.4	4,217.9
Aeronautical	570.8	658.9	657.5	760.0	629.5	946.8	946.8	977.6	987.6	NA	NA
Astronautical	526.9	618.5	518.5	583.4	536.0	440.4	439.3	480.4	454.7	NA	NA
Chemical	169.5	92.2	166.0	202.6	192.5	172.7	167.3	184.9	155.7	NA	NA
Civil	168.7	178.1	270.4	245.7	276.9	213.3	239.8	269.3	247.2	NA	NA
Electrical	577.1	669.3	493.1	587.4	593.6	678.4	536.1	552.3	468.3	NA	NA
Mechanical	157.2	156.5	176.9	220.0	223.4	324.3	236.5	248.2	181.0	NA	NA
Metallurgy & materials	226.6	266.2	294.3	416.1	453.6	454.3	521.2	447.3	486.3	NA	NA
Engineering, n.e.c.	553.3	618.8	548.4	695.4	821.6	1,061.7	1,102.0	1,112.1	1,092.0	NA	NA
Social sciences, total	339.0	396.4	484.0	566.0	549.8	480.8	463.3	472.0	444.2	511.6	534.5
Anthropology	2.2	1.8	1.9	3.3	3.1	3.7	6.6	6.6	5.0	NA	NA
Economics	124.8	129.1	160.1	150.1	172.3	158.7	154.9	161.8	153.1	NA	NA
Political science	7.1	8.1	6.8	10.0	16.1	22.8	20.6	15.2	10.5	NA	NA
Sociology	45.0	55.9	92.0	155.7	70.5	65.6	55.0	33.5	27.7	NA	NA
Social sciences, n.e.c.	159.9	201.6	223.3	246.9	287.9	229.9	226.2	254.9	248.0	NA	NA
Other sciences, n.e.c.	271.0	350.0	361.5	357.8	408.8	622.4	592.8	494.9	404.7	451.7	446.1

NOTES: Because of rounding, detail may not add to totals.

During the Vol. 45 survey cycle, the National Aeronautics and Space Administration made a statistical adjustment to the 1994 and 1995 field of science and engineering values to diminish a computational error introduced by its software.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-110. Federal obligations for research and development for selected agencies, by State: fiscal years 1977-87

[Dollars in millions]

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State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	22,841.1	25,077.7	27,084.2	28,627.3	31,929.6	35,361.6	37,627.8	41,148.5	47,214.8	50,310.2	54,067.4
Alabama	414.7	432.0	516.9	455.7	493.5	561.5	671.7	792.6	896.6	1,188.2	1,346.4
Alaska	38.1	48.7	45.9	42.5	51.8	40.0	40.4	47.7	51.5	49.4	48.8
Arizona	142.5	163.4	201.4	334.6	367.7	264.5	469.3	383.9	458.2	398.1	414.9
Arkansas	24.3	42.4	37.3	30.0	31.2	43.5	31.4	35.0	39.7	40.5	52.3
California	5,785.5	5,839.2	6,338.6	6,097.7	7,049.7	8,888.3	8,194.9	8,995.8	10,771.8	11,512.3	13,672.2
Colorado	324.2	393.2	442.2	573.7	632.8	556.6	436.2	531.6	629.2	1,636.4	1,516.3
Connecticut	291.8	299.8	328.4	470.3	485.0	439.6	743.3	675.9	742.8	577.3	672.2
Delaware	15.3	11.1	14.4	20.8	25.9	34.6	20.4	63.7	34.7	30.2	32.3
District of Columbia	728.1	790.2	768.4	807.0	921.0	954.6	1,196.1	1,796.0	2,077.7	2,324.0	2,209.2
Florida	872.5	890.1	913.1	1,120.8	1,373.7	1,776.4	1,276.0	1,138.1	1,205.2	1,448.0	2,297.3
Georgia	111.2	155.7	184.4	169.8	195.0	217.3	237.2	245.5	291.8	250.5	352.1
Hawaii	36.9	44.6	40.8	42.6	49.9	44.5	71.4	52.9	58.2	54.7	63.9
Idaho	119.8	107.0	147.1	147.7	119.5	127.0	223.4	195.2	259.7	266.6	232.7
Illinois	517.2	564.3	547.2	599.9	572.6	543.0	567.5	675.6	772.8	745.0	827.3
Indiana	102.8	108.1	122.0	162.4	170.1	186.2	213.6	236.0	227.7	295.1	339.4
Iowa	60.1	68.3	84.9	121.7	147.4	136.3	95.2	134.5	150.3	224.3	162.4
Kansas	36.3	106.6	136.3	353.6	471.0	637.7	97.4	101.9	138.1	112.7	94.2
Kentucky	56.6	62.1	43.0	107.9	101.0	97.2	93.1	56.5	69.2	59.1	61.9
Louisiana	156.5	162.7	209.1	196.3	331.8	236.8	186.6	129.7	118.8	92.4	107.4
Maine	18.3	25.4	23.1	25.9	24.4	23.9	29.3	38.1	36.7	35.6	178.6
Maryland	1,991.4	2,091.0	2,299.8	2,465.0	2,585.1	2,850.2	3,412.4	3,917.9	4,371.6	4,512.5	4,036.3
Massachusetts	1,472.0	1,689.3	2,055.6	2,047.7	2,407.1	2,775.2	2,559.3	2,882.6	3,276.7	3,240.3	3,910.8
Michigan	316.6	367.8	264.4	377.5	357.2	376.7	412.5	479.4	502.1	460.5	463.3
Minnesota	186.5	177.7	202.8	261.6	309.0	378.6	448.2	636.8	718.7	515.4	506.6
Mississippi	95.4	87.1	100.7	109.3	125.5	125.7	185.8	145.5	172.4	143.4	184.4
Missouri	639.6	827.3	778.9	801.6	820.4	911.3	576.8	659.5	694.2	677.8	614.7
Montana	47.8	27.5	41.6	45.7	45.4	42.7	35.0	26.6	26.0	26.4	30.1
Nebraska	24.5	33.5	31.3	31.6	31.7	32.0	42.3	33.0	34.6	41.1	48.9
Nevada	184.3	196.7	222.1	214.5	263.0	376.3	647.1	440.5	490.4	462.6	462.0
New Hampshire	32.6	68.7	94.1	50.2	54.8	50.8	76.8	116.4	130.3	136.0	83.6
New Jersey	566.3	522.5	649.3	729.4	775.4	887.9	1,293.4	1,550.0	1,791.8	1,781.4	1,114.9
New Mexico	751.4	987.4	955.5	954.2	1,224.1	1,322.6	1,804.9	2,104.8	2,368.6	2,500.0	1,998.2
New York	1,203.8	1,284.1	1,362.2	1,468.8	1,557.7	1,692.5	2,523.2	2,493.4	3,128.4	3,163.5	2,941.8
North Carolina	154.7	192.3	220.9	227.7	259.8	272.7	312.5	378.3	485.7	497.7	583.8
North Dakota	19.3	28.3	33.4	38.7	40.1	36.5	27.2	37.8	32.7	27.2	29.4
Ohio	694.8	858.3	1,053.2	1,054.7	1,117.2	1,024.8	1,170.1	1,366.5	1,520.5	1,591.7	1,862.9
Oklahoma	48.2	105.0	70.1	94.5	82.4	65.6	67.9	65.5	81.3	69.8	99.4
Oregon	84.9	95.3	100.1	97.9	105.6	106.3	108.0	137.8	151.6	127.6	133.9
Pennsylvania	837.5	995.7	1,099.9	1,059.4	1,082.9	1,131.5	1,173.3	1,142.2	1,329.6	1,301.3	1,681.9
Rhode Island	110.1	120.3	140.7	149.9	182.5	242.1	267.5	306.1	334.3	392.7	365.4
South Carolina	67.2	118.3	114.3	87.5	96.1	98.7	104.6	119.8	119.9	122.5	123.7
South Dakota	8.5	9.1	10.2	9.9	10.2	19.0	12.4	14.0	14.4	14.6	12.8
Tennessee	546.3	644.3	644.1	722.9	883.6	702.3	435.5	546.7	556.3	591.3	732.0
Texas	819.4	1,003.8	1,000.1	908.6	1,031.7	1,054.3	1,412.6	1,473.8	1,664.6	1,912.0	2,261.3
Utah	133.2	161.8	211.6	243.9	305.7	287.9	268.9	232.4	250.9	274.6	427.3
Vermont	36.6	23.7	16.7	36.6	18.7	35.7	23.7	33.8	36.1	41.1	39.6
Virginia	780.2	857.1	945.1	1,059.3	1,066.4	1,268.1	2,286.1	2,247.2	2,472.4	2,810.0	2,292.5
Washington	879.1	878.3	864.7	951.8	1,047.5	1,038.9	709.3	881.8	1,036.5	1,153.9	1,878.8
West Virginia	50.6	73.3	107.2	152.0	151.2	91.0	82.5	73.3	66.5	88.7	115.8
Wisconsin	94.8	111.9	111.0	121.7	132.2	129.4	142.4	166.0	200.8	181.9	204.8
Wyoming	24.2	40.8	41.0	53.9	58.2	25.4	28.4	34.0	25.1	14.5	23.5
Outlying areas	47.8	38.7	39.4	45.3	38.9	40.7	32.0	44.9	62.8	36.8	42.9
Offices abroad	38.6	45.9	57.7	73.5	47.2	59.0	51.0	34.6	35.9	59.2	78.2

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-110a. Federal obligations for research and development for selected agencies, by State: fiscal years 1988-96

[Dollars in millions]

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State	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	55,471.0	59,485.0	62,105.2	59,865.4	64,089.7	65,743.8	65,843.2	67,247.3	66,256.5
Alabama	1,363.7	1,646.7	1,805.4	1,863.2	2,151.7	2,149.4	1,818.4	2,016.3	2,179.5
Alaska	50.5	71.3	90.7	102.7	93.0	92.7	157.3	96.9	93.3
Arizona	369.4	501.2	591.7	516.8	638.2	535.3	795.1	906.9	708.8
Arkansas	56.4	57.0	85.7	85.9	68.8	79.2	88.9	97.7	146.7
California	14,895.9	15,919.4	16,249.3	14,488.3	15,999.1	14,883.7	11,279.9	12,698.0	12,617.6
Colorado	1,408.4	1,618.1	1,888.3	2,694.2	1,479.2	1,343.4	1,353.4	965.1	1,281.1
Connecticut	619.5	596.7	509.8	672.7	578.3	522.2	733.5	902.3	799.4
Delaware	36.0	31.9	28.3	41.8	43.1	56.2	50.4	56.4	63.2
District of Columbia	2,925.3	1,914.9	1,593.1	1,943.7	2,185.2	2,488.8	2,475.1	2,805.6	2,575.7
Florida	2,133.4	2,269.8	2,343.4	2,181.1	2,832.3	2,775.3	2,906.3	2,403.9	2,960.2
Georgia	350.4	392.5	364.1	466.5	2,512.6	3,035.3	5,544.4	4,365.8	4,136.5
Hawaii	82.2	97.4	100.0	112.6	150.7	113.0	140.3	140.8	147.4
Idaho	250.1	195.9	326.1	279.1	299.5	303.7	227.8	211.1	244.5
Illinois	850.7	909.1	957.2	959.4	921.9	963.8	1,080.0	1,116.1	1,093.3
Indiana	312.1	392.5	363.6	378.7	367.0	513.6	403.6	426.2	435.5
Iowa	197.1	190.9	186.7	209.8	194.7	215.8	223.8	214.3	214.1
Kansas	126.7	128.8	116.4	83.6	91.2	87.9	84.8	120.8	211.2
Kentucky	68.5	73.0	96.5	122.4	71.7	86.7	88.6	75.7	79.0
Louisiana	101.3	179.6	121.2	163.6	169.6	152.6	205.1	176.3	235.1
Maine	39.8	67.7	39.7	57.1	60.6	65.2	80.9	54.5	57.6
Maryland	4,355.3	4,849.0	5,332.1	5,569.0	5,779.7	7,238.5	6,653.0	7,385.7	6,732.5
Massachusetts	2,702.0	2,882.5	2,982.8	3,146.8	3,227.9	3,551.7	3,234.1	3,336.7	3,180.0
Michigan	417.5	686.2	810.8	772.6	876.3	878.0	770.2	688.4	705.9
Minnesota	576.8	597.3	529.8	455.7	456.4	445.5	474.4	571.1	678.5
Mississippi	185.1	198.7	471.7	230.6	255.7	259.8	255.7	212.7	251.2
Missouri	637.6	1,241.9	1,064.3	587.9	733.5	726.3	2,271.7	1,613.3	1,270.0
Montana	35.5	36.2	30.9	45.8	71.5	69.1	56.4	64.8	62.5
Nebraska	52.1	51.2	76.4	76.1	71.1	78.5	85.2	86.8	88.8
Nevada	443.3	427.5	484.7	496.0	465.8	406.2	347.7	372.6	252.8
New Hampshire	60.8	98.0	145.1	196.3	156.1	237.6	218.9	213.6	268.2
New Jersey	1,209.3	1,320.4	1,601.6	1,698.3	1,646.8	1,422.8	1,391.9	1,325.9	1,275.5
New Mexico	2,296.1	2,220.4	2,311.3	2,018.7	2,211.3	2,309.6	1,894.1	1,992.6	1,953.9
New York	2,688.7	2,904.1	2,960.8	3,086.6	3,058.7	2,538.0	2,698.7	2,584.2	2,492.0
North Carolina	625.0	562.8	618.6	673.8	700.7	719.1	734.3	825.4	816.1
North Dakota	32.5	33.3	53.1	43.7	54.2	50.3	49.6	47.3	45.1
Ohio	1,865.2	1,938.8	2,088.5	1,729.9	1,863.4	1,921.7	1,734.4	1,811.4	1,683.7
Oklahoma	103.7	117.6	162.6	131.5	126.1	117.9	141.5	159.4	137.5
Oregon	170.3	168.4	175.6	216.5	226.5	229.4	279.2	277.2	306.8
Pennsylvania	1,731.6	1,961.9	2,074.6	2,125.8	1,794.4	2,566.5	1,980.5	2,414.3	1,926.4
Rhode Island	335.6	314.1	391.1	433.8	386.3	495.6	433.5	515.4	583.5
South Carolina	148.7	222.6	230.9	250.4	172.1	173.2	198.5	178.0	187.1
South Dakota	13.1	15.0	15.7	22.5	23.9	26.9	26.5	26.5	34.6
Tennessee	567.2	576.0	825.0	732.2	666.0	674.4	675.6	583.3	558.5
Texas	2,514.9	3,189.2	3,496.8	2,321.4	2,873.0	2,546.2	3,658.3	4,062.2	3,493.5
Utah	462.0	517.8	437.7	429.1	314.0	298.8	325.7	371.2	351.8
Vermont	55.9	60.1	42.5	56.1	51.3	62.1	47.9	53.6	46.6
Virginia	2,729.1	2,778.0	2,733.5	2,909.0	3,231.3	3,402.6	3,729.7	3,603.0	4,601.5
Washington	1,765.6	1,766.2	1,567.0	1,241.1	900.5	878.1	950.2	1,127.8	1,150.0
West Virginia	113.4	104.0	116.6	177.9	166.4	206.2	212.9	296.3	253.9
Wisconsin	223.2	263.5	271.7	294.5	307.7	350.8	349.6	347.1	331.5
Wyoming	29.0	38.5	57.4	29.8	41.4	48.2	36.6	35.2	37.8
Outlying areas	33.0	45.7	54.9	221.7	246.9	332.7	166.3	165.7	170.4
Puerto Rico	NA	NA	NA	NA	NA	NA	50.5	46.7	49.5
Other Areas	NA	NA	NA	NA	NA	NA	115.8	119.0	121.0
Offices abroad	54.2	43.4	31.7	21.0	24.4	17.8	23.1	48.0	48.5

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-111. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1977-87

[Dollars in millions]

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State	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	1,334.0	1,262.0	1,393.8	1,533.1	1,454.4	1,380.1	1,280.9	1,770.6	1,774.7	1,482.5	1,793.8
Alabama	5.3	6.5	2.6	47.9	16.5	5.8	6.0	26.4	41.4	41.2	42.8
Alaska	.6	.7	.8	.1	-	-	21.3	.1	12.9	.0	.0
Arizona	1.6	33.9	35.3	1.8	.4	.4	5.4	3.6	2.9	1.7	19.6
Arkansas	2.8	.9	.2	.7	.7	1.0	1.5	.5	.5	.9	.5
California	303.3	259.5	400.2	377.4	355.4	334.6	368.4	316.8	404.2	323.5	290.7
Colorado	12.7	11.6	9.7	35.6	26.9	16.6	43.9	52.3	32.4	16.3	12.8
Connecticut	3.9	2.3	12.3	1.0	9.2	25.1	5.5	5.2	8.4	1.2	.4
Delaware	-	-	.0	.7	1.6	.1	.4	.6	.4	.4	.4
District of Columbia	11.3	11.1	22.0	14.3	31.7	33.6	24.6	62.4	92.5	28.0	24.1
Florida	155.2	81.1	46.0	46.7	25.5	31.8	37.2	91.2	42.8	53.2	64.6
Georgia	1.2	1.8	1.0	.6	1.6	1.5	2.1	3.8	2.6	15.6	23.1
Hawaii	.5	.7	.5	.2	.7	.1	1.6	.6	.9	.6	.6
Idaho	26.1	35.6	41.8	45.1	11.9	21.4	19.7	11.9	8.3	24.7	17.8
Illinois	52.0	72.9	61.9	71.5	74.1	74.3	80.3	81.2	110.1	96.6	94.3
Indiana	.6	.4	.7	.7	.9	.6	1.3	2.8	4.5	.5	5.8
Iowa	1.5	2.3	2.2	2.9	2.1	2.2	2.7	3.5	1.4	3.3	22.7
Kansas	.1	.2	-	.1	.1	.1	.2	.3	2.3	41.0	49.8
Kentucky	.0	-	2.9	-	4.3	1.4	.4	.3	.3	.3	1.7
Louisiana	3.6	20.9	16.7	12.6	14.1	22.2	2.4	2.6	2.0	2.2	2.5
Maine	.1	.1	.1	-	-	-	-	-	-	-	-
Maryland	80.4	82.7	64.3	53.3	52.3	82.2	80.8	180.1	145.4	78.6	109.8
Massachusetts	24.4	28.7	36.9	20.4	35.7	23.3	29.4	62.8	66.1	17.7	36.3
Michigan	1.1	1.9	3.0	8.3	9.5	7.8	1.1	6.4	5.1	1.2	1.4
Minnesota	.4	1.2	.8	.3	.5	.4	.8	3.1	.8	1.1	.4
Mississippi	11.5	6.0	3.8	6.6	3.4	5.9	6.4	13.7	12.6	13.5	39.1
Missouri	.9	1.2	5.6	40.9	1.8	5.7	6.0	3.9	3.7	4.7	4.8
Montana	.8	-	1.2	3.7	.1	.1	.2	.2	.2	.2	.2
Nebraska	.2	.3	.8	2.1	.6	.7	.5	.7	.4	7.3	1.4
Nevada	14.8	18.5	24.2	22.4	82.9	30.0	33.0	108.4	155.2	69.9	87.0
New Hampshire	2.4	1.3	5.4	-	7.7	.1	.7	.1	.4	.3	.2
New Jersey	64.8	96.7	64.8	60.5	55.7	57.0	42.0	52.7	40.1	37.6	39.8
New Mexico	137.9	101.7	138.6	169.5	119.3	196.6	191.8	102.3	243.7	192.0	256.6
New York	61.0	63.8	69.4	91.4	85.1	65.0	77.0	175.0	75.3	105.0	113.4
North Carolina	66.8	3.5	3.9	8.2	1.2	1.4	4.1	3.6	10.4	2.2	3.4
North Dakota	.6	2.3	1.4	4.1	1.4	1.2	.9	.9	1.3	8.8	.8
Ohio	60.4	23.9	28.0	40.3	65.2	23.7	7.5	49.6	46.5	19.2	58.1
Oklahoma	.4	1.0	.6	3.2	2.7	1.2	1.3	.9	1.7	2.3	.9
Oregon	-	2.6	.9	3.9	1.0	.1	.2	3.4	1.2	12.0	24.7
Pennsylvania	8.1	28.8	46.5	35.5	95.2	51.1	19.2	20.1	18.7	19.0	41.4
Rhode Island	5.3	2.4	3.5	2.6	1.6	2.1	1.9	.7	31.6	5.5	6.4
South Carolina	2.2	6.9	9.7	3.1	18.8	65.2	49.6	146.4	7.5	5.7	19.6
South Dakota	-	.1	1.6	3.1	.7	.9	.2	.1	.1	-	.1
Tennessee	37.8	43.4	55.8	80.1	85.5	65.2	27.3	69.9	33.8	30.8	29.3
Texas	10.4	11.8	9.7	14.2	13.9	10.2	4.7	9.6	19.4	79.7	75.1
Utah	1.5	8.0	2.9	1.9	1.5	3.1	.5	2.0	2.4	13.6	14.2
Vermont	.0	.0	-	.0	-	.0	.0	.0	.0	.0	1.0
Virginia	24.7	29.3	42.0	41.5	33.9	21.1	29.4	52.2	26.7	45.5	89.4
Washington	113.4	118.3	86.8	128.2	89.0	80.8	12.0	13.6	32.7	26.4	24.8
West Virginia	16.7	17.0	13.1	12.9	3.7	1.1	23.3	4.8	11.4	10.2	16.5
Wisconsin	.5	9.6	2.9	2.5	3.0	1.0	1.9	10.2	5.6	2.7	4.0
Wyoming	.3	.9	1.2	4.3	2.0	1.2	.1	.3	.1	.1	.3
Outlying areas	.1	1.7	.5	2.9	.7	.5	.2	3.3	1.4	13.9	18.2
Offices abroad	1.9	3.9	7.1	1.1	1.3	1.4	1.7	3.5	2.3	4.5	1.0

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

KEY: - = Amount less than 50 thousand dollars

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table C-111a. Federal obligations for R&D plant for selected agencies, by State: fiscal years 1988-96

[Dollars in millions]

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State	1988	1989	1990	1991	1992	1993	1994	1995	1996
Total	2,025.1	2,144.3	2,230.1	2,807.0	2,962.9	3,054.5	2,152.0	2,215.6	1,736.6
Alabama	51.8	47.2	109.7	165.0	346.1	368.2	94.1	44.1	48.9
Alaska	6.4	.0	11.1	.2	.8	1.0	88.0	1.4	.2
Arizona	21.8	18.1	2.5	16.4	7.9	16.9	20.8	42.7	3.0
Arkansas	.4	3.1	2.2	5.3	4.4	3.3	3.9	3.9	12.5
California	429.0	446.7	459.0	377.8	356.1	469.6	209.5	414.8	341.2
Colorado	53.5	62.5	32.3	50.7	55.6	30.0	36.9	31.2	28.4
Connecticut	1.0	1.4	1.8	2.6	2.6	14.4	3.8	5.2	3.6
Delaware	1.3	.2	-	-	.1	2.1	1.1	1.9	2.0
District of Columbia	15.4	17.1	7.4	16.3	17.8	13.3	11.2	3.0	4.6
Florida	86.0	100.0	68.3	132.1	143.1	73.5	101.7	41.5	65.3
Georgia	2.7	10.8	3.6	6.0	6.4	3.5	5.3	12.4	4.6
Hawaii	6.9	.4	1.4	9.2	6.5	19.3	14.3	.5	1.7
Idaho	39.6	12.0	30.3	46.0	39.6	27.4	12.5	8.9	19.2
Illinois	76.7	94.9	116.3	319.7	183.9	201.6	208.5	190.2	147.3
Indiana	1.9	1.5	1.3	5.0	8.4	22.6	4.1	4.8	15.2
Iowa	3.8	6.2	10.4	26.1	5.2	7.9	10.1	15.5	10.1
Kansas	.1	1.6	3.1	5.2	2.5	10.1	10.6	1.2	1.5
Kentucky	.1	.5	.7	1.6	.0	.0	3.9	4.7	2.4
Louisiana	31.9	47.2	33.6	26.1	26.2	29.5	21.0	21.6	26.5
Maine	.3	.1	.7	.7	1.5	1.0	1.9	.7	.2
Maryland	79.2	120.1	178.9	235.9	229.7	264.6	196.2	390.4	240.2
Massachusetts	94.2	54.7	78.2	32.5	20.2	22.3	15.8	23.1	14.1
Michigan	4.4	4.6	6.6	3.0	9.1	21.7	4.5	4.6	6.3
Minnesota	.7	1.8	1.1	2.1	2.5	3.0	2.2	5.1	6.3
Mississippi	19.1	41.1	47.4	50.8	41.6	42.2	31.9	36.6	32.8
Missouri	2.7	3.7	1.9	6.5	1.7	1.5	4.7	4.6	4.4
Montana	.2	.2	.5	1.6	2.7	1.6	3.6	4.9	5.8
Nebraska	4.1	2.8	4.1	6.0	5.7	1.0	1.0	2.3	1.0
Nevada	103.3	69.3	61.1	57.7	59.7	50.2	26.9	38.5	16.1
New Hampshire	-	.2	.3	.3	4.0	.8	.3	-	.6
New Jersey	52.6	46.8	51.3	30.0	39.0	53.2	45.3	35.3	26.7
New Mexico	231.4	239.6	197.9	175.5	164.7	181.4	152.6	133.8	77.5
New York	115.3	101.6	100.6	107.2	194.5	177.7	183.1	159.1	164.6
North Carolina	.9	4.3	3.4	7.4	6.8	36.6	40.0	25.8	20.5
North Dakota	9.2	6.0	7.4	9.0	7.4	5.5	5.8	4.9	1.5
Ohio	68.5	69.8	56.3	115.4	122.2	64.1	124.1	147.6	67.5
Oklahoma	10.7	4.5	1.5	3.3	4.1	1.0	1.9	2.8	3.2
Oregon	8.6	30.1	12.3	3.3	1.8	13.8	6.5	5.2	8.1
Pennsylvania	56.3	79.0	36.0	89.5	52.0	95.7	65.0	35.4	51.3
Rhode Island	2.0	1.6	.8	14.3	1.9	.6	.6	7.3	3.9
South Carolina	8.2	8.9	3.7	31.9	4.1	4.9	14.7	2.7	2.2
South Dakota	.6	.3	1.7	2.0	1.5	1.0	5.6	4.3	3.0
Tennessee	57.2	58.8	62.4	63.2	48.1	29.5	77.4	37.1	22.9
Texas	40.7	97.6	210.6	218.0	465.7	429.1	56.6	84.3	56.5
Utah	6.8	12.1	2.5	3.5	1.5	3.5	6.7	5.3	2.6
Vermont	8.0	1.4	.4	.8	.0	.1	.6	-	2.2
Virginia	105.5	127.4	128.7	175.5	172.4	131.0	126.6	81.2	69.7
Washington	31.2	35.5	44.2	34.5	54.3	71.6	71.5	64.3	71.8
West Virginia	23.2	26.7	12.4	89.4	9.7	8.4	4.8	5.4	2.6
Wisconsin	2.0	4.0	4.4	13.0	10.2	8.0	9.6	9.6	3.0
Wyoming	.2	.1	.2	.7	1.8	.6	1.8	1.5	.5
Outlying areas	46.5	1.5	14.9	11.0	6.9	13.1	.5	1.4	8.3
Puerto Rico	NA	NA	NA	NA	NA	NA	.4	.3	.3
Other Areas	NA	NA	NA	NA	NA	NA	-	1.1	8.1
Offices abroad	.9	16.8	.3	.5	.6	.6	.7	1.3	.5

NOTES: For each year, the data shown include the obligations of the 10 or 11 major R&D-supporting agencies which were requested to report to this section of the survey in that year, and represent 96 percent or more of the total Federal R&D obligations in that year.

Although the nongeographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

Because of rounding, detail may not add to totals.

KEY:

- = Amount less than 50 thousand dollars

NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year)

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

APPENDIX A.

AGENCIES INCLUDED IN THIS SURVEY, VOLUMES 27 TO 46

LIST OF TABLES

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A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 27–36 317

A–2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 37–46 321

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 27–36

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Agency	Vol 27	Vol 28	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36
Department of Agriculture	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	N	N	N	x	x	x	x	x	x	x
Agricultural Marketing Service	O	O	x	x	x	x	x	x	x	x
Agricultural Research Service	N	N	N	N	x	x	x	x	x	x
Agricultural Stabilization & Conservation Service	O	O	O	O	O	O	O	O	O	O
Animal & Plant Health Inspection Service	O	O	O	O	O	O	O	O	O	x
Cooperative State Research, Education, & Extension Service	N	N	N	N	x	x	x	x	x	x
Economic Research Service	N	N	N	N	x	x	x	x	x	x
Economics, Statistics, & Cooperative Service	x	x	x	N	N	N	N	N	N	N
Economics & Statistics Service	N	N	N	x	N	N	N	N	N	N
Food Safety Inspection Service	N	N	N	N	O	O	O	O	O	O
Foreign Agricultural Service	N	N	N	N	N	N	N	O	O	O
Forest Service	x	x	x	x	x	x	x	x	x	x
Grain Inspection Packers & Stockyards Administration	O	O	O	O	O	O	O	O	x	x
Human Nutrition Information Service	N	N	N	N	x	x	x	x	x	x
National Agricultural Statistics Service	N	N	N	N	x	x	x	x	x	x
Office of International Cooperation & Development	N	N	x	x	x	x	x	x	x	x
Office of Transportation	N	N	x	x	x	x	x	x	x	x
Rural Business-Cooperative Service	N	N	N	N	N	N	N	N	N	N
Science & Education Administration	T	T	T	T	N	N	N	N	N	N
Agricultural Research Service	x	x	x	x	N	N	N	N	N	N
Cooperative State Research Service	x	x	x	x	N	N	N	N	N	N
Department of Commerce	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	x	x	x	x	x	x	x	x	x	x
Economic Development Administration	x	x	x	x	x	x	x	x	x	x
Maritime Administration	x	x	x	x	N	N	N	N	N	N
Minority Business Development Agency	x	O	O	O	O	O	O	O	O	O
National Fire Prevention & Control Administration	x	N	N	N	N	N	N	N	N	N
National Institute of Standards & Technology	x	x	x	x	x	x	x	x	x	x
National Oceanic & Atmospheric Administration	x	x	x	x	x	x	x	x	x	x
National Telecommunications & Information Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	O	O	x	x	x	x	x	x	x	x
Patent & Trademark Office	x	x	x	x	x	x	O	O	O	O
Department of Defense	O	O	O	O	O	O	O	O	O	O
Department of the Army, Civil Functions	T	T	T	T	T	T	T	T	T	T
Department of the Army, Military Functions	x	x	x	x	x	x	x	x	x	x
Military Construction	x	x	x	x	x	x	x	x	x	x
Pay & Allowances of Military Personnel in R&D	x	x	x	x	x	x	x	x	x	O
	x	x	x	x	x	x	x	x	x	O
RDT&E Appropriation										
Special Foreign Currency Program	x	x	x	x	x	x	x	x	x	O
Department of the Navy	O	O	O	O	O	O	x	x	x	O
Military Construction	x	x	x	x	x	x	x	x	x	x
Pay & Allowances of Military Personnel in R&D	x	x	x	x	x	x	x	x	x	O
	x	x	x	x	x	x	x	x	x	O
RDT&E Appropriation										
Special Foreign Currency Program	x	x	x	x	x	x	x	x	x	O
Department of the Air Force	x	x	x	x	x	x	x	x	x	O
Military Construction	x	x	x	x	x	x	x	x	x	x
Pay & Allowances of Military Personnel in R&D	x	x	x	x	x	x	x	x	x	O
	x	x	x	x	x	x	x	x	x	O
RDT&E Appropriation										
Defense Agencies	x	x	x	x	x	x	x	x	x	O
Ballistic Missile Defense Organization	x	x	x	x	x	x	x	x	x	x
Defense Advanced Research Projects Agency	O	O	O	O	O	O	O	O	O	O
	O	O	O	O	O	O	O	O	O	O

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 27–36

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Agency	Vol 27	Vol 28	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36
Department of Defense—continued										
Defense Information Systems Agency	O	O	O	O	O	O	O	O	O	O
Defense Logistics Agency	O	O	O	O	O	O	O	O	O	O
Defense Special Weapons Agency	O	O	O	O	O	O	O	O	O	O
Joint Staff	O	O	O	O	O	O	O	O	O	O
National Imagery & Mapping Agency	O	x	x	x	x	x	O	x	x	O
Special Operations Command	O	O	O	O	O	O	x	x	x	O
Uniformed Services University of the Health Sciences	O	O	O	O	O	O	O	O	O	O
Washington Headquarters Services	x	x	x	x	x	x	x	x	x	O
Defense Civil Preparedness Agency	x	x	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	N	N	N	N	N	N
Operational Test & Evaluation, Director	N	N	N	N	N	N	N	N	N	x
Test & Evaluation, Deputy Under Secretary of Defense	x	x	x	x	x	x	x	x	x	x
Department of Education	N	N	x	x	O	x	x	x	x	x
Department of Energy	x	x	x	x	x	x	x	x	x	x
Department of Health, Education, & Welfare	T	T	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & Mental Health Administration	x	x	N	N	N	N	N	N	N	N
Center for Disease Control	x	x	N	N	N	N	N	N	N	N
Food & Drug Administration	x	x	N	N	N	N	N	N	N	N
Health Care Financing Administration	x	x	N	N	N	N	N	N	N	N
Health Resources Administration	x	x	N	N	N	N	N	N	N	N
Health Services Administration	x	x	N	N	N	N	N	N	N	N
National Institute of Education	x	x	N	N	N	N	N	N	N	N
National Institutes of Health	x	x	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	x	x	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	x	x	N	N	N	N	N	N	N	N
Office of Education	x	x	N	N	N	N	N	N	N	N
Office of Human Development Services	x	x	N	N	N	N	N	N	N	N
Office of the Secretary	x	x	N	N	N	N	N	N	N	N
Social Security Administration	x	x	N	N	N	N	N	N	N	N
Department of Health & Human Services	N	N	T	T	T	T	T	T	T	T
Administration on Aging	N	N	N	N	N	N	N	N	N	N
Administration for Children & Families	N	N	N	N	N	N	N	N	N	N
Agency for Health Care Policy & Research	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & Mental Health Administration	N	N	x	x	x	x	x	x	x	x
Centers for Disease Control & Prevention	N	N	x	x	x	x	x	x	x	x
Food & Drug Administration	N	N	x	x	x	x	x	x	x	x
Health Care Financing Administration	N	N	x	x	x	x	x	x	x	x
Health Resources Administration	N	N	x	x	x	N	N	N	N	N
Health Resources & Services Administration	N	N	N	N	N	x	x	x	x	x
Health Services Administration	N	N	x	x	x	N	N	N	N	N
Human Development Services	N	N	x	x	x	x	x	x	x	x
National Institutes of Health	N	N	x	x	x	x	x	x	x	x
Office of the Assistant Secretary for Health	N	N	x	x	x	x	x	x	x	x
Office of the Secretary	N	N	x	x	x	x	x	x	x	x
Office of the Assistant Secretary, Planning & Evaluation	N	N	N	N	N	N	N	N	N	N
Office of Public Health & Science	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	x	x	x	x	x	x	x	x
Substance Abuse & Mental Health Services Administration	N	N	N	N	N	N	N	N	N	N
Department of Housing & Urban Development	x	x	x	x	x	x	x	x	x	x
Department of the Interior	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	O	O	O	O	x	N	N	N	N	N

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 27–36

Agency	Vol 27	Vol 28	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36
Department of the Interior—continued										
Bureau of Land Management	x	x	x	x	x	x	x	x	x	x
Bureau of Mines	x	x	x	x	x	x	x	x	x	x
Bureau of Reclamation	x	x	x	x	x	x	x	x	x	x
Geological Survey	x	x	x	x	x	x	x	x	x	x
Heritage Conservation & Recreation Service	x	N	N	N	N	N	N	N	N	N
Minerals Management Service	N	N	N	N	N	x	x	x	x	x
National Biological Service	N	N	N	N	N	N	N	N	N	N
National Park Service	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Office of Surface Mining Reclamation & Enforcement	x	x	x	x	x	x	x	x	x	x
Office of Water Research & Technology	x	x	x	x	x	x	x	x	N	N
United States Fish & Wildlife Service	x	x	x	x	x	x	x	x	x	x
Department of Justice	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	x	x	x	x	x	x	x	x	x	x
Drug Enforcement Administration	x	x	x	x	x	x	x	x	x	x
Federal Bureau of Investigation	x	x	x	x	x	x	x	x	x	x
Immigration & Naturalization Service	x	x	x	x	x	x	x	x	x	x
Office of Justice Programs	x	x	x	x	x	x	x	x	x	x
Office of Legal Policy	x	x	x	x	x	x	x	x	x	x
Department of Labor	T	T	T	T	T	T	T	T	T	T
Bureau of Labor Statistics	x	x	x	x	x	x	x	x	x	x
Employment Standards Administration	x	x	x	x	x	x	x	x	x	x
Employment & Training Administration	x	x	x	x	x	x	x	x	x	x
Labor-Management Relations & Cooperative Programs	N	N	N	N	N	N	N	x	x	x
Labor-Management Services Administration	x	x	x	x	x	x	x	N	N	N
Occupational Safety & Health Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Pension Benefit Guaranty Corporation	N	N	N	N	x	x	x	x	x	x
Pension & Welfare Benefits Administration	N	N	N	N	N	N	N	x	x	x
Department of State	T	T	T	T	T	x	x	x	x	x
Agency for International Development	x	x	N	N	N	N	N	N	N	N
Departmental Funds	x	x	x	x	x	O	O	O	O	O
Department of Transportation	T	T	T	T	T	T	T	T	T	T
Coast Guard	x	x	x	x	x	x	x	x	x	x
Federal Aviation Administration	x	x	x	x	x	x	x	x	x	x
Federal Highway Administration	x	x	x	x	x	x	x	x	x	x
Federal Railroad Administration	x	x	x	x	x	x	x	x	x	x
Federal Transit Administration	x	x	x	x	x	x	x	x	x	x
Infrastructure Investment	N	N	N	N	N	N	N	N	N	N
Maritime Administration	N	N	N	N	x	x	x	x	x	x
National Highway Traffic Safety Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Research & Special Programs Administration	x	x	x	x	x	x	x	x	x	x
Department of the Treasury	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, & Firearms	x	x	x	x	x	N	N	N	N	N
Bureau of Engraving & Printing	x	x	x	x	x	x	x	x	x	x
Financial Crimes Enforcement Network	O	O	O	O	O	O	O	O	O	O
Internal Revenue Service	O	x	x	x	x	x	x	x	x	x
Office of Thrift Supervision	N	N	N	N	N	N	N	N	N	N
United States Customs Service	x	x	x	x	x	x	x	x	x	x
United States Mint	O	O	O	O	O	O	O	x	x	x
United States Secret Service	N	N	N	x	x	x	x	x	x	x

See explanatory information and SOURCE at end of table.

Table A-1. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 27–36

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Agency	Vol 27	Vol 28	Vol 29	Vol 30	Vol 31	Vol 32	Vol 33	Vol 34	Vol 35	Vol 36
Department of Veterans Affairs	x	x	x	x	x	x	x	x	x	x
Other agencies										
ACTION	x	x	x	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	x	x	x	x	x	x	x	x	x	x
Appalachian Regional Commission	x	x	x	x	x	x	x	x	x	x
Civil Service Commission	x	N	N	N	N	N	N	N	N	N
Community Services Administration	x	x	x	x	x	N	N	N	N	N
Consumer Product Safety Commission	x	x	x	x	x	x	x	x	x	x
Energy Security Trust Fund	N	N	x	N	N	N	N	N	N	N
Environmental Protection Agency	x	x	x	x	x	x	x	x	x	x
Federal Communications Commission	x	x	x	x	x	x	x	x	x	x
Federal Emergency Management Agency	N	T	x	x	x	x	x	x	x	O
National Fire Prevention & Control Administration	N	x	O	O	O	O	O	O	O	O
Federal Trade Commission	x	x	x	x	x	x	x	x	x	x
Foundation for Educational Assistance	N	N	N	N	x	N	N	N	N	N
General Services Administration	x	x	x	x	x	x	x	x	x	x
International Development Cooperation Agency	N	N	T	T	T	T	T	T	T	T
Agency for International Development	N	N	x	x	x	x	x	x	x	x
Institute for Scientific & Technological Cooperation	O	O	x	O	O	O	O	O	O	O
Interstate Commerce Commission	x	x	x	x	O	O	O	O	O	O
Library of Congress	x	x	x	x	x	x	x	x	x	x
National Aeronautics & Space Administration	x	x	x	x	x	x	x	x	x	x
National Archives & Records Administration	N	N	N	N	N	N	N	N	x	x
National Science Foundation	x	x	x	x	x	x	x	x	x	x
Nuclear Regulatory Commission	x	x	x	x	x	x	x	x	x	x
Office of Personnel Management	N	x	x	x	x	O	O	O	O	O
Office of Thrift Supervision	x	x	x	x	x	x	x	x	x	x
Small Business Administration	x	O	O	O	O	O	O	O	O	O
Smithsonian Institution	x	x	x	x	x	x	x	x	x	x
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Tennessee Valley Authority	x	x	x	x	x	x	x	x	x	x
United States Arms Control & Disarmament Agency	x	x	x	x	x	x	x	x	x	x
United States Information Agency	x	x	x	x	x	x	x	x	x	x
United States International Trade Commission	x	x	x	x	x	x	x	x	x	x

NOTE: Federal funds data, as collected, always span 3 Government fiscal years: the fiscal year just completed, the current fiscal year, and the President's budget year. Actual data are collected for the year just completed, and estimates are obtained for the current fiscal year and the budget year. For Volume 46 (see table A-2), for example, actual data were collected for FY 1996 and estimates were collected for FY 1997 and FY 1998.

KEY:
N = The agency did not exist as such; therefore no data are available.
O = The agency existed but had no R&D to report.
T = The agency existed but data were not collected at this level.
x = The agency existed and data were collected and submitted by the agency.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 37–46

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Agency	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46
Department of Agriculture	T	T	T	T	T	T	T	T	T	T
Agricultural Cooperative Service	x	x	x	x	x	x	x	x	N	N
Agricultural Marketing Service	x	x	x	x	x	x	x	x	x	x
Agricultural Research Service	x	x	x	x	x	x	x	x	x	x
Agricultural Stabilization & Conservation Service	O	O	O	O	O	O	O	O	N	N
Animal & Plant Health Inspection Service	x	x	x	x	x	x	x	x	x	x
Cooperative State Research, Education, & Extension Service	x	x	x	x	x	x	x	x	x	x
Economic Research Service	x	x	x	x	x	x	x	x	x	x
Economics, Statistics, & Cooperative Service	N	N	N	N	N	N	N	N	N	N
Economics & Statistics Service	N	N	N	N	N	N	N	N	N	N
Food Safety Inspection Service	O	O	O	O	O	O	O	O	O	x
Foreign Agricultural Service	O	O	O	O	O	O	x	x	x	x
Forest Service	x	x	x	x	x	x	x	x	x	x
Grain Inspection Packers & Stockyards Administration	x	x	x	x	x	x	x	x	x	x
Human Nutrition Information Service	x	x	x	x	x	x	x	x	N	N
National Agricultural Statistics Service	x	x	x	x	x	x	x	x	x	x
Office of International Cooperation & Development	x	x	x	x	x	x	x	x	N	N
Office of Transportation	x	x	N	N	N	N	N	N	N	N
Rural Business-Cooperative Service	N	N	N	N	N	N	N	x	x	x
Science & Education Administration	N	N	N	N	N	N	N	N	N	N
Agricultural Research Service	N	N	N	N	N	N	N	N	N	N
Cooperative State Research Service	N	N	N	N	N	N	N	N	N	N
Department of Commerce	T	T	T	T	T	T	T	T	T	T
Bureau of the Census	x	x	x	x	x	x	x	x	x	x
Economic Development Administration	x	x	x	x	x	x	x	x	x	x
Maritime Administration	N	N	N	N	N	N	N	N	N	N
Minority Business Development Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention & Control Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Standards & Technology	x	x	x	x	x	x	x	x	x	x
National Oceanic & Atmospheric Administration	x	x	x	x	x	x	x	x	x	x
National Telecommunications & Information Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Patent & Trademark Office	O	O	O	O	O	O	O	O	O	O
Department of Defense	T	T	T	T	T	T	T	T	T	T
Department of the Army, Civil Functions	x	x	x	x	x	x	x	x	x	x
Department of the Army, Military Functions	x	x	x	x	x	x	x	x	x	x
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay & Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Navy	x	x	x	x	x	x	x	x	x	x
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay & Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Special Foreign Currency Program	O	O	O	O	O	O	O	O	O	O
Department of the Air Force	x	x	x	x	x	x	x	x	x	x
Military Construction	O	O	O	O	O	O	O	O	O	O
Pay & Allowances of Military Personnel in R&D	O	O	O	O	O	O	O	O	O	O
RDT&E Appropriation	O	O	O	O	O	O	O	O	O	O
Defense Agencies	T	T	T	T	T	T	T	T	T	T
Ballistic Missile Defense Organization	O	O	O	x	x	x	x	x	x	x
Defense Advanced Research Projects Agency	O	O	O	x	x	x	x	x	x	x

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 37–46

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Agency	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46
Department of Defense—continued										
Defense Information Systems Agency	O	O	O	x	x	x	x	x	x	x
Defense Logistics Agency	O	O	O	x	x	x	x	x	x	x
Defense Special Weapons Agency	O	O	O	x	x	x	x	x	x	x
Joint Staff	O	O	O	x	x	x	x	x	x	x
National Imagery & Mapping Agency	O	O	O	x	x	x	x	x	x	O
Special Operations Command	O	O	O	x	x	x	x	x	x	x
Uniformed Services University of the Health Sciences	O	O	O	x	x	x	x	x	N	N
Washington Headquarters Services	O	O	O	x	x	x	x	x	x	x
Defense Civil Preparedness Agency	N	N	N	N	N	N	N	N	N	N
Health Affairs, Assistant Secretary of Defense for	N	N	N	N	x	O	O	O	O	O
Operational Test & Evaluation, Director	x	x	x	x	x	x	x	x	x	x
Test & Evaluation, Deputy Under Secretary of Defense	x	x	x	x	x	x	x	x	x	x
Department of Education	x	x	x	x	x	x	x	x	x	x
Department of Energy	x	x	x	x	x	x	x	x	x	x
Department of Health, Education, & Welfare	N	N	N	N	N	N	N	N	N	N
Alcohol, Drug Abuse, & Mental Health Administration	N	N	N	N	N	N	N	N	N	N
Center for Disease Control	N	N	N	N	N	N	N	N	N	N
Food & Drug Administration	N	N	N	N	N	N	N	N	N	N
Health Care Financing Administration	N	N	N	N	N	N	N	N	N	N
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Services Administration	N	N	N	N	N	N	N	N	N	N
National Institute of Education	N	N	N	N	N	N	N	N	N	N
National Institutes of Health	N	N	N	N	N	N	N	N	N	N
Office of Assistant Secretary for Education	N	N	N	N	N	N	N	N	N	N
Office of the Assistant Secretary for Health	N	N	N	N	N	N	N	N	N	N
Office of Education	N	N	N	N	N	N	N	N	N	N
Office of Human Development Services	N	N	N	N	N	N	N	N	N	N
Office of the Secretary	N	N	N	N	N	N	N	N	N	N
Social Security Administration	N	N	N	N	N	N	N	N	N	N
Department of Health & Human Services	T	T	T	T	T	T	T	T	T	T
Administration on Aging	N	N	N	N	x	x	x	x	x	x
Administration for Children & Families	N	N	N	N	x	x	x	x	x	x
Agency for Health Care Policy & Research	N	N	N	x	x	x	x	x	x	x
Alcohol, Drug Abuse, & Mental Health Administration	x	x	x	x	x	N	N	N	N	N
Centers for Disease Control & Prevention	x	x	x	x	x	x	x	x	x	x
Food & Drug Administration	x	x	x	x	x	x	x	x	x	x
Health Care Financing Administration	x	x	x	x	x	x	x	x	x	x
Health Resources Administration	N	N	N	N	N	N	N	N	N	N
Health Resources & Services Administration	x	x	x	x	x	x	x	x	x	x
Health Services Administration	N	N	N	N	N	N	N	N	N	N
Human Development Services	x	x	x	x	N	N	N	N	N	N
National Institutes of Health	x	x	x	x	x	x	x	x	x	x
Office of the Assistant Secretary for Health	x	x	x	x	x	x	x	x	x	N
Office of the Secretary	x	x	x	x	x	x	x	x	x	T
Office of the Assistant Secretary, Planning & Evaluation	N	N	N	N	N	N	N	N	N	x
Office of Public Health & Science	N	N	N	N	N	N	N	N	N	x
Social Security Administration	x	x	x	x	x	x	x	x	x	N
Substance Abuse & Mental Health Services Administration	N	N	N	N	N	N	N	N	N	x
Department of Housing & Urban Development	x	x	x	x	x	x	x	x	x	x
Department of the Interior	T	T	T	T	T	T	T	T	T	T
Bonneville Power Administration	N	N	N	N	N	N	N	N	N	N

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 37–46

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Agency	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46
Department of the Interior—continued										
Bureau of Land Management	x	x	x	x	x	x	x	O	O	O
Bureau of Mines	x	x	x	x	x	x	x	x	O	N
Bureau of Reclamation	x	x	x	x	x	x	x	x	x	x
Geological Survey	x	x	x	x	x	x	x	x	x	x
Heritage Conservation & Recreation Service	N	N	N	N	N	N	N	N	N	N
Minerals Management Service	x	x	x	x	x	x	x	x	x	x
National Biological Service	N	N	N	N	N	N	x	x	x	N
National Park Service	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	O
Office of Surface Mining Reclamation & Enforcement	x	x	x	x	x	x	x	x	O	O
Office of Water Research & Technology	N	N	N	N	N	N	N	N	N	N
United States Fish & Wildlife Service	x	x	x	x	x	x	x	O	O	O
Department of Justice	T	T	T	T	T	T	T	T	T	T
Bureau of Prisons	x	x	x	x	x	x	x	x	x	x
Drug Enforcement Administration	x	x	x	x	x	x	x	x	x	x
Federal Bureau of Investigation	x	x	x	x	x	x	x	x	x	x
Immigration & Naturalization Service	x	x	x	x	x	x	x	x	x	x
Office of Justice Programs	x	x	x	x	x	x	x	x	x	x
Office of Legal Policy	x	O	O	O	O	O	O	O	O	O
Department of Labor	T	T	T	T	T	T	T	T	T	T
Bureau of Labor Statistics	x	x	x	x	x	x	x	x	x	x
Employment Standards Administration	x	x	x	x	O	O	O	O	O	O
Employment & Training Administration	x	x	x	x	x	x	x	x	x	x
Labor-Management Relations & Cooperative Programs	x	x	x	N	N	N	N	N	N	N
Labor-Management Services Administration	N	N	N	N	N	N	N	N	N	N
Occupational Safety & Health Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Pension Benefit Guaranty Corporation	x	x	x	x	x	x	x	x	x	x
Pension & Welfare Benefits Administration	x	x	x	x	x	x	x	x	x	x
Department of State	x	x	x	x	x	x	x	x	x	x
Agency for International Development	N	N	N	N	N	N	N	N	N	N
Departmental Funds	O	O	O	O	O	O	O	O	O	O
Department of Transportation	T	T	T	T	T	T	T	T	T	T
Coast Guard	x	x	x	x	x	x	x	x	x	x
Federal Aviation Administration	x	x	x	x	x	x	x	x	x	x
Federal Highway Administration	x	x	x	x	x	x	x	x	x	x
Federal Railroad Administration	x	x	x	x	x	x	x	x	x	x
Federal Transit Administration	x	x	x	x	x	x	x	x	x	x
Infrastructure Investment	N	N	N	N	N	N	N	x	N	N
Maritime Administration	x	x	O	x	x	x	x	x	x	O
National Highway Traffic Safety Administration	x	x	x	x	x	x	x	x	x	x
Office of the Secretary	x	x	x	x	x	x	x	x	x	x
Research & Special Programs Administration	x	x	x	x	x	x	x	x	x	x
Department of the Treasury	T	T	T	T	T	T	T	T	T	T
Bureau of Alcohol, Tobacco, & Firearms	N	N	N	N	N	N	N	N	N	N
Bureau of Engraving & Printing	x	x	x	x	x	x	x	x	x	x
Financial Crimes Enforcement Network	O	O	O	O	x	x	x	O	O	O
Internal Revenue Service	x	x	x	x	x	x	x	x	x	x
Office of Thrift Supervision	N	N	N	O	x	x	x	x	x	x
United States Customs Service	x	x	x	x	x	x	x	x	x	x
United States Mint	x	x	x	x	x	x	x	x	x	x
United States Secret Service	x	x	x	x	x	x	x	x	x	x

See explanatory information and SOURCE at end of table.

Table A-2. Agencies included in the Survey of Federal Funds for Research and Development: Volumes 37–46

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Agency	Vol 37	Vol 38	Vol 39	Vol 40	Vol 41	Vol 42	Vol 43	Vol 44	Vol 45	Vol 46
Department of Veterans Affairs	x	x	x	x	x	x	x	x	x	x
Other agencies										
ACTION	O	O	O	O	O	O	O	O	O	O
Advisory Commission on Intergovernmental Relations	x	x	x	x	x	x	x	x	x	N
Appalachian Regional Commission	x	x	x	x	x	x	x	x	x	x
Civil Service Commission	N	N	N	N	N	N	N	N	N	N
Community Services Administration	N	N	N	N	N	N	N	N	N	N
Consumer Product Safety Commission	x	x	x	x	x	x	x	x	x	x
Energy Security Trust Fund	N	N	N	N	N	N	N	N	N	N
Environmental Protection Agency	x	x	x	x	x	x	x	x	x	x
Federal Communications Commission	x	x	x	x	x	x	x	x	x	x
Federal Emergency Management Agency	O	O	O	O	O	O	O	O	O	O
National Fire Prevention & Control Administration	O	O	O	O	O	O	O	O	O	O
Federal Trade Commission	x	x	x	x	x	x	x	x	x	x
Foundation for Educational Assistance	N	N	N	N	N	N	N	N	N	N
General Services Administration	x	x	x	x	x	x	x	x	x	x
International Development Cooperation Agency	T	T	T	T	T	T	T	T	T	T
Agency for International Development	x	x	x	x	x	x	x	x	x	x
Institute for Scientific & Technological Cooperation	O	O	O	O	O	O	O	O	O	O
Interstate Commerce Commission	O	O	O	O	O	O	O	O	O	O
Library of Congress	x	x	x	x	x	x	x	x	x	x
National Aeronautics & Space Administration	x	x	x	x	x	x	x	x	x	x
National Archives & Records Administration	x	x	x	x	x	x	x	x	x	x
National Science Foundation	x	x	x	x	x	x	x	x	x	x
Nuclear Regulatory Commission	x	x	x	x	x	x	x	x	x	x
Office of Personnel Management	O	O	O	O	O	O	O	O	O	O
Office of Thrift Supervision	x	x	x	x	N	N	N	N	N	N
Small Business Administration	O	O	O	O	O	O	O	O	O	O
Smithsonian Institution	x	x	x	x	x	x	x	x	x	x
Social Security Administration	N	N	N	N	N	N	N	N	N	x
Tennessee Valley Authority	x	x	x	x	x	x	x	x	x	x
United States Arms Control & Disarmament Agency	x	x	x	x	x	x	x	x	x	x
United States Information Agency	x	x	x	x	x	x	x	x	x	x
United States International Trade Commission	x	x	x	x	x	x	x	x	x	x

NOTE: Federal funds data, as collected, always span 3 Government fiscal years: the fiscal year just completed, the current fiscal year, and the President's budget year. Actual data are collected for the year just completed, and estimates are obtained for the current fiscal year and the budget year. For Volume 46, for example, actual data were collected for FY 1996 and estimates were collected for FY 1997 and FY 1998.

KEY:
N = The agency did not exist as such; therefore nc data are available.
O = The agency existed but had no R&D to report.
T = The agency existed but data were not collected at this level.
x = The agency existed and data were collected and submitted by the agency.

SOURCE: National Science Foundation/SRS, Survey of Federal Funds for Research and Development: Fiscal Years 1996, 1997, and 1998

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